

DELIVERABLE DOCUMENT CONTROL SHEET

FINAL ANALYTICAL TAGA REPORT
INTERCONTINENTAL TERMINALS COMPANY
EPA Work Assignment No.: SERAS-372
Leidos Innovations
Work Order No.: SER00372

SIGNATURES

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DATE: July 2019
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THROUGH: Paul Carter, SERAS Program Manager
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SUBJECT: DOCUMENT TRANSMITTAL UNDER WORK ASSIGNMENT # 0-375

Attached please find the following document prepared under this work assignment:

FINAL ANALYTICAL TAGA REPORT
INTERCONTINENTAL TERMINALS COMPANY
DEER PARK, TEXAS
JULY 2019

cc: Central File - WA # SERAS-375(w/attachment)
Electronic File – I:\Archive\SERAS\372\D\FA\XXXXXX
Paul Carter, SERAS Program Manager (w/o attachment)

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FINAL ANALYTICAL TAGA REPORT
INTERCONTINENTAL TERMINALS COMPANY
DEER PARK, TEXAS
JULY 2019

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- 72c Monitoring Deer Park Five in ppbv for Benzene, Toluene, and Xylenes
- 73a Monitoring Deer Park Six Path, 64MSMS00825
- 73b TAGA File Event Summary; File: 64MSMS00825 Acquired on 31 March 2019 at 15:33:55; Title: Monitoring Deer Park Six
- 73c Monitoring Deer Park Six in ppbv for Benzene, Toluene, and Xylenes
- 74a Monitoring Highway 8 to Command Post Path, 64MSMS00828
- 74b TAGA File Event Summary; File: 64MSMS00828 Acquired on 01 April 2019 at 08:53:30; Title: Monitoring Highway 8 to Command Post
- 74c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 75a Monitoring Pasadena to Deer Park Path, 64MSMS00829
- 75b TAGA File Event Summary; File: 64MSMS00829 Acquired on 01 April 2019 at 09:38:35; Title: Monitoring Pasadena to Deer Park
- 75c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 76a Monitoring Deer Park to Pasadena Path, 64MSMS00830
- 76b TAGA File Event Summary; File: 64MSMS00830 Acquired on 01 April 2019 at 10:35:24; Title: Monitoring Deer Park to Pasadena
- 76c Mobile Monitoring Deer Park to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 77a Monitoring Deer Park Path, 64MSMS00831
- 77b TAGA File Event Summary; File: 64MSMS00831 Acquired on 01 April 2019 at 11:42:28; Title: Monitoring Deer Park
- 77c Mobile Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 78a Monitoring Deer Park Two Path, 64MSMS00833
- 78b TAGA File Event Summary; File: 64MSMS00833 Acquired on 01 April 2019 at 14:20:03; Title: Monitoring Deer Park Two
- 78c Mobile Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes
- 79a Monitoring Deer Park Three Path, 64MSMS00834
- 79b TAGA File Event Summary; File: 64MSMS00834 Acquired on 01 April 2019 at 15:27:18; Title: Monitoring Deer Park Three
- 79c Mobile Monitoring Deer Park Three in ppbv for Benzene, Toluene, and Xylenes
- 80a Monitoring Baytown to Pasadena Path, 64MSMS00835
- 80b TAGA File Event Summary; File: 64MSMS00835 Acquired on 01 April 2019 at 16:39:22; Title: Monitoring Baytown to Pasadena

- 80c Mobile Monitoring Baytown to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 81a Monitoring Deer Park to Channelview Path, 64MSMS00841
- 81b TAGA File Event Summary; File: 64MSMS00841 Acquired on 02 April 2019 at 09:34:57; Title: Monitoring Deer Park to Channelview
- 81c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 82a Monitoring Channelview Path, 64MSMS00842
- 82b TAGA File Event Summary; File: 64MSMS00842 Acquired on 02 April 2019 at 10:44:39; Title: Monitoring Channelview
- 82c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 83a Monitoring Jacinto City to Deer Park Path, 64MSMS00843
- 83b TAGA File Event Summary; File: 64MSMS00843 Acquired on 02 April 2019 at 12:09:57; Title: Monitoring Jacinto City to Deer Park
- 83c Mobile Monitoring Jacinto City to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 84a Monitoring Deer Park to Channelview Path, 64MSMS00853
- 84b TAGA File Event Summary; File: 64MSMS00853 Acquired on 03 April 2019 at 15:13:12; Title: Monitoring Deer Park to Channelview
- 84c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 85a Monitoring Channelview to Pasadena Path, 64MSMS00854
- 85b TAGA File Event Summary; File: 64MSMS00854 Acquired on 03 April 2019 at 16:35:49; Title: Monitoring Channelview to Pasadena
- 85c Mobile Monitoring Channelview to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 86a Monitoring Highway 8 to Command Post Path, 64MSMS00857
- 86b TAGA File Event Summary; File: 64MSMS00857 Acquired on 04 April 2019 at 08:32:18; Title: Monitoring Highway 8 to Command Post
- 86c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 87a Monitoring Deer Park to Channelview Path, 64MSMS00858
- 87b TAGA File Event Summary; File: 64MSMS00858 Acquired on 04 April 2019 at 09:35:58; Title: Monitoring Deer Park to Channelview
- 87c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 88a Monitoring Channelview Path, 64MSMS00859
- 88b TAGA File Event Summary; File: 64MSMS00859 Acquired on 04 April 2019 at 10:41:18; Title: Monitoring Channelview

- 88c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 89a Monitoring Channelview to Galena Park Path, 64MSMS00860
- 89b TAGA File Event Summary; File: 64MSMS00860 Acquired on 04 April 2019 at 11:50:27; Title: Monitoring Channelview to Galena Park
- 89c Mobile Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 90a Monitoring Channelview to Galena Park Two Path, 64MSMS00861
- 90b TAGA File Event Summary; File: 64MSMS00861 Acquired on 04 April 2019 at 12:58:34; Title: Monitoring Channelview to Galena Park Two
- 90c Mobile Monitoring Channelview to Galena Park Two in ppbv for Benzene, Toluene, and Xylenes
- 91a Monitoring Channelview to Galena Park Three Path, 64MSMS00863
- 91b TAGA File Event Summary; File: 64MSMS00863 Acquired on 04 April 2019 at 14:49:35; Title: Monitoring Channelview to Galena Park Three
- 91c Mobile Monitoring Channelview to Galena Park Three in ppbv for Benzene, Toluene, and Xylenes
- 92a Monitoring Channelview to Deer Park Path, 64MSMS00864
- 92b TAGA File Event Summary; File: 64MSMS00864 Acquired on 04 April 2019 at 16:33:18; Title: Monitoring Channelview to Deer Park
- 92c Mobile Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 93a Monitoring Highway 8 to Command Post Path, 64MSMS00868
- 93b TAGA File Event Summary; File: 64MSMS00868 Acquired on 05 April 2019 at 08:41:26; Title: Monitoring Highway 8 to Command Post
- 93c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 94a Monitoring Deer Park to Channelview Path, 64MSMS00869
- 94b TAGA File Event Summary; File: 64MSMS00869 Acquired on 05 April 2019 at 09:23:38; Title: Monitoring Deer Park to Channelview
- 94c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 95a Monitoring Channelview Path, 64MSMS00870
- 95b TAGA File Event Summary; File: 64MSMS00870 Acquired on 05 April 2019 at 10:37:02; Title: Monitoring Channelview
- 95c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 96a Monitoring Channelview Two Path, 64MSMS00871
- 96b TAGA File Event Summary; File: 64MSMS00871 Acquired on 05 April 2019 at 11:49:40; Title: Monitoring Channelview Two

- 96c Mobile Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 97a Monitoring Galena Park, 64MSMS00874
- 97b TAGA File Event Summary; File: 64MSMS00874 Acquired on 05 April 2019 at 14:59:06; Title: Monitoring Galena Park
- 97c Mobile Monitoring Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 98a Monitoring Channelview to Pasadena Path, 64MSMS00875
- 98b TAGA File Event Summary; File: 64MSMS00875 Acquired on 05 April 2019 at 16:16:03; Title: Monitoring Channelview to Pasadena
- 98c Mobile Monitoring Channelview to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 99a Monitoring Highway 9 to Command Post Path, 64MSMS00878
- 99b TAGA File Event Summary; File: 64MSMS00878 Acquired on 06 April 2019 at 08:29:57; Title: Monitoring Highway 8 to Command Post
- 99c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 100a Monitoring Deer Park to Channelview Path, 64MSMS00879
- 100b TAGA File Event Summary; File: 64MSMS00879 Acquired on 06 April 2019 at 09:01:37; Title: Monitoring Deer Park to Channelview
- 100c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 101a Monitoring Baytown to Channelview Path, 64MSMS00880
- 101b TAGA File Event Summary; File: 64MSMS00880 Acquired on 06 April 2019 at 10:07:20; Title: Monitoring Baytown to Channelview
- 101c Mobile Monitoring Baytown to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 102a Monitoring Channelview Path, 64MSMS00881
- 102b TAGA File Event Summary; File: 64MSMS00881 Acquired on 06 April 2019 at 11:20:52; Title: Monitoring Channelview
- 102c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 103a Monitoring Channelview to Galena Park Path, 64MSMS00883
- 103b TAGA File Event Summary; File: 64MSMS00883 Acquired on 06 April 2019 at 13:57:55; Title: Monitoring Channelview to Galena Park
- 103c Mobile Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 104a Monitoring Channelview to Pasadena Path, 64MSMS00884
- 104b TAGA File Event Summary; File: 64MSMS00884 Acquired on 06 April 2019 at 15:59:04; Title: Monitoring Channelview to Pasadena

- 104c Mobile Monitoring Channelview to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 105a Monitoring Highway 8 to Command Post Path, 64MSMS00887
- 105b TAGA File Event Summary; File: 64MSMS00887 Acquired on 07 April 2019 at 09:15:02; Title: Monitoring Highway 8 to Command Post
- 105c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 106a Monitoring Deer Park to Channelview Path, 64MSMS00888
- 106b TAGA File Event Summary; File: 64MSMS00888 Acquired on 07 April 2019 at 10:06:04; Title: Monitoring Deer Park to Channelview
- 106c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 107a Monitoring Channelview Path, 64MSMS00889
- 107b TAGA File Event Summary; File: 64MSMS00888 Acquired on 07 April 2019 at 10:06:04; Title: Monitoring Deer Park to Channelview
- 107c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 108a Monitoring Channelview Two Path, 64MSMS00890
- 108b TAGA File Event Summary; File: 64MSMS00890 Acquired on 07 April 2019 at 12:03:19; Title: Monitoring Channelview Two
- 108c Mobile Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 109a Monitoring Highway 8 to Command Post Path, 64MSMS00897
- 109b TAGA File Event Summary; File: 64MSMS00897 Acquired on 08 April 2019 at 08:22:41; Title: Monitoring Highway 8 to Command Post
- 109c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 110a Monitoring Deer Park to Channelview Path, 64MSMS00898
- 110b TAGA File Event Summary; File: 64MSMS00898 Acquired on 08 April 2019 at 09:06:49; Title: Monitoring Deer Park to Channelview
- 110c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 111a Monitoring Baytown to Channelview Path, 64MSMS00899
- 111b TAGA File Event Summary; File: 64MSMS00899 Acquired on 08 April 2019 at 09:59:07; Title: Monitoring Baytown to Channelview
- 111c Mobile Monitoring Baytown to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 112a Monitoring Channelview Path, 64MSMS00900
- 112b TAGA File Event Summary; File: 64MSMS00900 Acquired on 08 April 2019 at 11:03:06; Title: Monitoring Channelview

- 112c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 113a Monitoring Channelview to Galena Park Path, 64MSMS00902
- 113b TAGA File Event Summary; File: 64MSMS00902 Acquired on 08 April 2019 at 13:07:52; Title: Monitoring Channelview to Galena Park
- 113c Mobile Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 114a Monitoring Channelview to Pasadena Path, 64MSMS00903
- 114b TAGA File Event Summary; File: 64MSMS00903 Acquired on 08 April 2019 at 15:01:48; Title: Monitoring Channelview to Pasadena
- 114c Mobile Monitoring Channelview to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 115a Monitoring Highway 8 to Command Post Path, 64MSMS00906
- 115b TAGA File Event Summary; File: 64MSMS00906 Acquired on 09 April 2019 at 08:22:45; Title: Monitoring from Highway 8 to Command Post
- 115c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 116a Monitoring Deer Park to Channelview Path, 64MSMS00907
- 116b TAGA File Event Summary; File: 64MSMS00907 Acquired on 09 April 2019 at 09:07:10; Title: Monitoring Deer Park to Channelview
- 116c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 117a Monitoring ITC Site to Baytown Path, 64MSMS00908
- 117b TAGA File Event Summary; File: 64MSMS00908 Acquired on 09 April 2019 at 10:11:51; Title: Monitoring ITC Site to Baytown
- 117c Mobile Monitoring ITC Site to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 118a Monitoring Channelview Path, 64MSMS00909
- 118b TAGA File Event Summary; File: 64MSMS00909 Acquired on 09 April 2019 at 11:26:56; Title: Monitoring Channelview
- 118c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 119a Monitoring Channelview to Galena Park Path, 64MSMS00911
- 119b TAGA File Event Summary; File: 64MSMS00911 Acquired on 09 April 2019 at 13:37:02; Title: Monitoring Channelview to Galena Park
- 119c Mobile Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 120a Monitoring Channelview Two Path, 64MSMS00912
- 120b TAGA File Event Summary; File: 64MSMS00912 Acquired on 09 April 2019 at 15:28:24; Title: Monitoring Channelview Two

- 120c Mobile Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 121a Monitoring Lynchburg to Pasadena Path, 64MSMS00913
- 121b TAGA File Event Summary; File: 64MSMS00913 Acquired on 09 April 2019 at 16:19:46; Title: Monitoring Lynchburg to Pasadena
- 121c Mobile Monitoring Lynchburg to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 122a Monitoring Highway 8 to Command Post Path, 64MSMS00916
- 122b TAGA File Event Summary; File: 64MSMS00916 Acquired on 10 April 2019 at 07:56:22; Title: Monitoring Highway 8 to Command Post
- 122c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 123a Monitoring Pasadena to Deer Park Path, 64MSMS00917
- 123b TAGA File Event Summary; File: 64MSMS00917 Acquired on 10 April 2019 at 08:34:25; Title: Monitoring Pasadena to Deer Park
- 123c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 124a Monitoring Deer Park to Baytown Path, 64MSMS00918
- 124b TAGA File Event Summary; File: 64MSMS00918 Acquired on 10 April 2019 at 09:33:19; Title: Monitoring Deer Park to Baytown
- 124c Mobile Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 125a Monitoring Lynchburg to Channelview Path, 64MSMS00919
- 125b TAGA File Event Summary; File: 64MSMS00919 Acquired on 10 April 2019 at 10:48:47; Title: Monitoring Lynchburg to Channelview
- 125c Mobile Monitoring Lynchburg to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 126a Monitoring Channelview Path, 64MSMS00920
- 126b TAGA File Event Summary; File: 64MSMS00920 Acquired on 10 April 2019 at 11:38:21; Title: Monitoring Channelview
- 126c Mobile Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 127a Monitoring Galena Park Path, 64MSMS00922
- 127b TAGA File Event Summary; File: 64MSMS00922 Acquired on 10 April 2019 at 13:55:21; Title: Monitoring Galena Park
- 127c Mobile Monitoring Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 128a Monitoring Galena Park to Channelview Path, 64MSMS00923
- 128b TAGA File Event Summary; File: 64MSMS00923 Acquired on 10 April 2019 at 15:10:00; Title: Monitoring Galena Park to Channelview

- 128c Mobile Monitoring Galena Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 129a Monitoring Channelview to Deer Park Path, 64MSMS00924
- 129b TAGA File Event Summary; File: 64MSMS00924 Acquired on 10 April 2019 at 16:13:28; Title: Monitoring Channelview to Deer Park
- 129c Mobile Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 130a Monitoring Highway 8 to Command Post Path, 64MSMS00928
- 130b TAGA File Event Summary; File: 64MSMS00928 Acquired on 11 April 2019 at 08:37:33; Title: Monitoring Highway 8 to Command Post
- 130c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 131a Stationary Monitoring at EPA Command Post Location, 64MSMS00929
- 131b TAGA File Event Summary; File: 64MSMS00929 Acquired on 11 April 2019 at 09:23:24; Title: Stationary Monitoring at EPA Command Post
- 131c Stationary Monitoring at EPA Command Post in ppbv for Benzene, Toluene, and Xylenes
- 132a Monitoring Pasadena to Deer Park Path, 64MSMS00930
- 132b TAGA File Event Summary; File: 64MSMS00930 Acquired on 11 April 2019 at 10:06:59; Title: Monitoring Pasadena to Deer Park
- 132c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 133a Monitoring Deer Park to Baytown Path, 64MSMS00931
- 133b TAGA File Event Summary; File: 64MSMS00931 Acquired on 11 April 2019 at 11:05:07; Title: Monitoring Deer Park to Baytown
- 133c Mobile Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 134a Monitoring Lynchburg to Galena Park Path, 64MSMS00932
- 134b TAGA File Event Summary; File: 64MSMS00932 Acquired on 11 April 2019 at 12:01:26; Title: Monitoring Lynchburg to Galena Park
- 134c Mobile Monitoring Lynchburg to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 135a Monitoring Galena Park to Channelview Path, 64MSMS00934
- 135b TAGA File Event Summary; File: 64MSMS00934 Acquired on 11 April 2019 at 14:05:06; Title: Monitoring Galena Park to Channelview
- 135c Mobile Monitoring Galena Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 136a Monitoring Channelview to Deer Park Path, 64MSMS00935
- 136b TAGA File Event Summary; File: 64MSMS00935 Acquired on 11 April 2019 at 15:22:24; Title: Monitoring Channelview to Deer Park

- 136c Mobile Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 137a Monitoring Highway 8 to Command Post Path, 64MSMS00938
- 137b TAGA File Event Summary; File: 64MSMS00938 Acquired on 12 April 2019 at 10:46:01; Title: Monitoring Highway 8 to Command Post
- 137c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 138a Monitoring Pasadena to Deer Park Path, 64MSMS00939
- 138b TAGA File Event Summary; File: 64MSMS00939 Acquired on 12 April 2019 at 11:17:06; Title: Monitoring Pasadena to Deer Park
- 138c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 139a Monitoring Deer Park to Galena Park Path, 64MSMS00940
- 139b TAGA File Event Summary; File: 64MSMS00940 Acquired on 12 April 2019 at 12:31:27; Title: Monitoring Deer Park to Galena Park
- 139c Mobile Monitoring Deer Park to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 140a Monitoring Galena Park to Manchester Path, 64MSMS00942
- 140b TAGA File Event Summary; File: 64MSMS00942 Acquired on 12 April 2019 at 14:04:32; Title: Monitoring Galena Park to Manchester
- 140c Mobile Monitoring Galena Park to Manchester in ppbv for Benzene, Toluene, and Xylenes
- 141a Monitoring Manchester to Deer Park Path, 64MSMS00943
- 141b TAGA File Event Summary; File: 64MSMS00943 Acquired on 12 April 2019 at 14:56:35; Title: Monitoring Manchester to Deer Park
- 141c Mobile Monitoring Manchester to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 142a Monitoring Highway 8 to Command Post Path, 64MSMS00946
- 142b TAGA File Event Summary; File: 64MSMS00946 Acquired on 13 April 2019 at 08:23:52; Title: Monitoring Highway 8 to Command Post
- 142c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 143a Monitoring Pasadena to Deer Park Path, 64MSMS00947
- 143b TAGA File Event Summary; File: 64MSMS00947 Acquired on 13 April 2019 at 09:03:01; Title: Monitoring Pasadena to Deer Park
- 143c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 144a Monitoring Deer Park to Channelview Path, 64MSMS00948
- 144b TAGA File Event Summary; File: 64MSMS00948 Acquired on 13 April 2019 at 10:02:38; Title: Monitoring Deer Park to Channelview

- 144c Mobile Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 145a Monitoring Lynchburg to Channelview Path, 64MSMS00949
- 145b TAGA File Event Summary; File: 64MSMS00949 Acquired on 13 April 2019 at 10:59:11; Title: Monitoring Lynchburg Ferry to Channelview
- 145c Mobile Monitoring Lynchburg to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 146a Monitoring Channelview to Galena Park Path, 64MSMS00950
- 146b TAGA File Event Summary; File: 64MSMS00950 Acquired on 13 April 2019 at 11:47:54; Title: Monitoring Channelview to Galena Park
- 146c Mobile Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 147a Monitoring Galena Park to Baytown Path, 64MSMS00952
- 147b TAGA File Event Summary; File: 64MSMS00952 Acquired on 13 April 2019 at 13:55:34; Title: Monitoring Galena Park to Baytown
- 147c Mobile Monitoring Galena Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 148a Monitoring Channelview to Baytown Path, 64MSMS00953
- 148b TAGA File Event Summary; File: 64MSMS00953 Acquired on 13 April 2019 at 15:06:45; Title: Monitoring Channelview to Baytown
- 148c Mobile Monitoring Channelview to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 149a Monitoring Highway 8 to Command Post Path, 64MSMS00956
- 149b TAGA File Event Summary; File: 64MSMS00956 Acquired on 14 April 2019 at 08:05:52; Title: Monitoring Highway 8 to Command Post
- 149c Mobile Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 150a Monitoring Pasadena to Deer Park Path, 64MSMS00957
- 150b TAGA File Event Summary; File: 64MSMS00957 Acquired on 14 April 2019 at 12:34:47; Title: Monitoring Pasadena to Deer Park
- 150c Mobile Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 151a Monitoring Deer Park Path, 64MSMS00958
- 151b TAGA File Event Summary; File: 64MSMS00958 Acquired on 14 April 2019 at 13:29:48; Title: Monitoring Deer Park
- 151c Mobile Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 152a Monitoring Deer Park to Baytown Path, 64MSMS00959
- 152b TAGA File Event Summary; File: 64MSMS00959 Acquired on 14 April 2019 at 14:35:10; Title: Monitoring Deer Park to Baytown

- 152c Mobile Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 153a Monitoring Highway 8 to Command Post Path, 64MSMS00962
- 153b TAGA File Event Summary; File: 64MSMS00962 Acquired on 15 April 2019 at 07:57:57; Title: Monitoring Highway 8 to Command Post
- 153c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 154a Monitoring Pasadena to Deer Park Path, 64MSMS00963
- 154b TAGA File Event Summary; File: 64MSMS00963 Acquired on 15 April 2019 at 08:52:36; Title: Monitoring Pasadena to Deer Park
- 154c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 155a Monitoring Highway 8 to Command Post Path, 64MSMS00966
- 155b TAGA File Event Summary; File: 64MSMS00966 Acquired on 17 April 2019 at 08:09:1; Title: Monitoring Highway 8 to Command Post
- 155c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 156a Monitoring Pasadena to Deer Park Path, 64MSMS00967
- 156b TAGA File Event Summary; File: 64MSMS00967 Acquired on 17 April 2019 at 08:51:2; Title: Monitoring Pasadena to Deer Park
- 156c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 157a Monitoring Deer Park to Channelview Path, 64MSMS00968
- 157b TAGA File Event Summary; File: 64MSMS00968 Acquired on 17 April 2019 at 09:40:13; Title: Monitoring Deer Park to Channelview
- 157c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 158a Monitoring Lynchburg to Channelview Path, 64MSMS00969
- 158b TAGA File Event Summary; File: 64MSMS00969 Acquired on 17 April 2019 at 10:29:50; Title: Monitoring Lynchburg to Channelview
- 158c Monitoring Lynchburg to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 159a Monitoring Channelview Path, 64MSMS00970
- 159b TAGA File Event Summary; File: 64MSMS00970 Acquired on 17 April 2019 at 11:36:38; Title: Monitoring Channelview
- 159c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 160a Monitoring Galena Park Path, 64MSMS00972
- 160b TAGA File Event Summary; File: 64MSMS00972 Acquired on 17 April 2019 at 13:22:08; Title: Monitoring Galena Park

- 160c Monitoring Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 161a Monitoring Manchester to Galena Park Path, 64MSMS00973
- 161b TAGA File Event Summary; File: 64MSMS00973 Acquired on 17 April 2019 at 14:11:58; Title: Monitoring Manchester to Galena Park
- 161c Monitoring Manchester to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 162a Monitoring Channelview to Deer Park Path, 64MSMS00974
- 162b TAGA File Event Summary; File: 64MSMS00974 Acquired on 17 April 2019 at 15:58:18; Title: Monitoring Channelview to Deer Park
- 162c Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 163a Monitoring Highway 8 to Command Post Path, 64MSMS00977
- 163b TAGA File Event Summary; File: 64MSMS00977 Acquired on 18 April 2019 at 08:40:52; Title: Monitoring Highway 8 to Command Post
- 163c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 164a Monitoring Deer Park Path, 64MSMS00979
- 164b TAGA File Event Summary; File: 64MSMS00979 Acquired on 18 April 2019 at 10:10:18; Title: Monitoring Deer Park
- 164c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 165a Monitoring Deer Park to Pasadena Path, 64MSMS00980
- 165b TAGA File Event Summary; File: 64MSMS00980 Acquired on 18 April 2019 at 11:40:13; Title: Monitoring Deer Park to Pasadena
- 165c Monitoring Deer Park to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 166a Monitoring Pasadena to Baytown Path, 64MSMS00982
- 166b TAGA File Event Summary; File: 64MSMS00982 Acquired on 18 April 2019 at 13:52:52; Title: Monitoring Pasadena to Baytown
- 166c Monitoring Pasadena to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 167a Monitoring Deer Park to Baytown Path, 64MSMS00983
- 167b TAGA File Event Summary; File: 64MSMS00983 Acquired on 18 April 2019 at 14:59:06; Title: Monitoring Deer Park to Baytown
- 167c Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 168a Monitoring Lynchburg to Deer Park Path, 64MSMS00984
- 168b TAGA File Event Summary; File: 64MSMS00984 Acquired on 18 April 2019 at 15:50:31; Title: Monitoring Lynchburg to Deer Park

- 168c Monitoring Lynchburg to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 169a Monitoring Highway 8 to Command Post Path, 64MSMS00987
- 169b TAGA File Event Summary; File: 64MSMS00987 Acquired on 19 April 2019 at 07:57:47; Title: Monitoring Highway 8 to Command Post
- 169c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 170a Monitoring Pasadena to Deer Park Path, 64MSMS00988
- 170b TAGA File Event Summary; File: 64MSMS00988 Acquired on 19 April 2019 at 08:42:14; Title: Monitoring Pasadena to Deer Park
- 170c Monitoring Pasadena to Deer Park in ppbv in ppbv for Benzene, Toluene, and Xylenes
- 171a Monitoring Deer Park to La Porte Path, 64MSMS00989
- 171b TAGA File Event Summary; File: 64MSMS00989 Acquired on 19 April 2019 at 09:29:22; Title: Monitoring Deer Park to La Porte
- 171c Monitoring Deer Park to La Porte in ppbv for Benzene, Toluene, and Xylenes
- 172a Monitoring Deer Park to La Porte Two Path, 64MSMS00990
- 172b TAGA File Event Summary; File: 64MSMS00990 Acquired on 19 April 2019 at 11:29:00; Title: Monitoring Deer Park to La Porte Two
- 172c Monitoring Deer Park to La Porte Two in ppbv for Benzene, Toluene, and Xylenes
- 173a Monitoring Deer Park Path, 64MSMS00992
- 173b TAGA File Event Summary; File: 64MSMS00992 Acquired on 19 April 2019 at 13:18:23; Title: Monitoring Deer Park
- 173c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 174a Monitoring Deer Park to La Porte Three Path, 64MSMS00993
- 174b TAGA File Event Summary; File: 64MSMS00993 Acquired on 19 April 2019 at 14:07:31; Title: Monitoring Deer Park to La Porte Three
- 174c Monitoring Deer Park to La Porte Three in ppbv for Benzene, Toluene, and Xylenes
- 175a Monitoring La Porte Path, 64MSMS00994
- 175b TAGA File Event Summary; File: 64MSMS00994 Acquired on 19 April 2019 at 15:07:12; Title: Monitoring La Porte
- 175c Monitoring La Porte in ppbv for Benzene, Toluene, and Xylenes
- 176a Monitoring La Porte to Deer Park Path, 64MSMS00995
- 176b TAGA File Event Summary; File: 64MSMS00995 Acquired on 19 April 2019 at 16:02:31; Title: Monitoring La Porte to Deer Park

176c Monitoring La Porte to Deer Park in ppbv for Benzene, Toluene, and Xylenes

177a Monitoring Pasadena to Deer Park Path, 64MSMS01000

177b TAGA File Event Summary; File: 64MSMS01000 Acquired on 20 April 2019 at 09:39:01; Title: Monitoring Pasadena to Deer Park

177c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes

178a Monitoring Deer Park Path, 64MSMS01001

178b TAGA File Event Summary; File: 64MSMS01001 Acquired on 20 April 2019 at 10:28:33; Title: Monitoring Deer Park

178c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes

179a Monitoring Deer Park Two Path, 64MSMS01002

179b TAGA File Event Summary; File: 64MSMS01002 Acquired on 20 April 2019 at 11:01:15; Title: Monitoring Deer Park Two

179c Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes

180a Monitoring La Porte to Independence Parkway Path, 64MSMS01003

180b TAGA File Event Summary; File: 64MSMS01003 Acquired on 20 April 2019 at 12:08:00; Title: Monitoring La Porte to Independence

180c Monitoring La Porte to Independence in ppbv for Benzene, Toluene, and Xylenes

181a Monitoring Deer Park to Baytown Path, 64MSMS01005

181b TAGA File Event Summary; File: 64MSMS01005 Acquired on 20 April 2019 at 14:26:16; Title: Monitoring Deer Park to Baytown

181c Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes

182a Monitoring Deer Park to Baytown Path, 64MSMS01006

182b TAGA File Event Summary; File: 64MSMS01006 Acquired on 20 April 2019 at 15:07:12; Title: Monitoring Deer Park to Baytown Two

182c Monitoring Deer Park to Baytown Two in ppbv for Benzene, Toluene, and Xylenes

183a Monitoring Baytown to Deer Park Path, 64MSMS01007

183b TAGA File Event Summary; File: 64MSMS01007 Acquired on 20 April 2019 at 16:03:22; Title: Monitoring Baytown to Deer Park

183c Monitoring Baytown to Deer Park in ppbv for Benzene, Toluene, and Xylenes

184a Monitoring Highway 8 to Command Post Path, 64MSMS01010

184b TAGA File Event Summary; File: 64MSMS01010 Acquired on 21 April 2019 at 08:30:22; Title: Monitoring Highway 8 to Command Post

- 184c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 185a Monitoring Pasadena to Deer Park Path, 64MSMS01011
- 185b TAGA File Event Summary; File: 64MSMS01011 Acquired on 21 April 2019 at 09:04:00; Title: Monitoring Pasadena to Deer Park
- 185c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 186a Monitoring Channelview Path, 64MSMS01012
- 186b TAGA File Event Summary; File: 64MSMS01012 Acquired on 21 April 2019 at 09:57:21; Title: Monitoring Channelview
- 186c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 187a Monitoring Channelview Two Path, 64MSMS01013
- 187b TAGA File Event Summary; File: 64MSMS01013 Acquired on 21 April 2019 at 11:12:48; Title: Monitoring Channelview Two
- 187c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 188a Monitoring Channelview to Deer Park Path, 64MSMS01014
- 188b TAGA File Event Summary; File: 64MSMS01014 Acquired on 21 April 2019 at 12:21:26; Title: Monitoring Channelview to Deer Park
- 188c Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 189a Monitoring Deer Park to Baytown Path, 64MSMS01016
- 189b TAGA File Event Summary; File: 64MSMS01016 Acquired on 21 April 2019 at 14:43:23; Title: Monitoring Deer Park to Baytown
- 189c Monitoring Deer Park to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 190a Monitoring Baytown to Deer Park Path, 64MSMS01017
- 190b TAGA File Event Summary; File: 64MSMS01017 Acquired on 21 April 2019 at 15:49:10; Title: Monitoring Baytown to Deer Park
- 190c Monitoring Baytown to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 191a Monitoring Highway 8 to Command Post Path, 64MSMS01020
- 191b TAGA File Event Summary; File: 64MSMS01020 Acquired on 22 April 2019 at 08:45:46; Title: Monitoring Highway 8 to Command Post
- 191c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 192a Monitoring Pasadena to Deer Park Path, 64MSMS01021
- 192b TAGA File Event Summary; File: 64MSMS01021 Acquired on 22 April 2019 at 09:17:26; Title: Monitoring Pasadena to Deer Park

192c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes

193a Monitoring Deer Park to Channelview Path, 64MSMS01022

193b TAGA File Event Summary; File: 64MSMS01022 Acquired on 22 April 2019 at 10:00:06; Title: Monitoring Deer Park to Channelview

193c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes

194a Monitoring Channelview to Galena Park Path, 64MSMS01023

194b TAGA File Event Summary; File: 64MSMS01023 Acquired on 22 April 2019 at 11:24:44; Title: Monitoring Channelview to Galena Park

194c Monitoring Channelview to Galena Park in ppbv for Benzene, Toluene, and Xylenes

195a Monitoring Galena Park Path, 64MSMS01025

195b TAGA File Event Summary; File: 64MSMS01025 Acquired on 22 April 2019 at 13:21:35; Title: Monitoring Galena Park

195c Monitoring Galena Park in ppbv for Benzene, Toluene, and Xylenes

196a Monitoring Galena Park to Channelview Path, 64MSMS01026

196b TAGA File Event Summary; File: 64MSMS01026 Acquired on 22 April 2019 at 14:20:57; Title: Monitoring Galena Park to Channelview

196c Monitoring Galena Park to Channelview in ppbv for Benzene, Toluene, and Xylenes

197a Monitoring Channelview to Deer Park Path, 64MSMS01027

197b TAGA File Event Summary; File: 64MSMS01027 Acquired on 22 April 2019 at 15:27:20; Title: Monitoring Channelview to Deer Park

197c Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes

198a Monitoring Highway 8 to Command Post Path, 64MSMS01030

198b TAGA File Event Summary; File: 64MSMS01030 Acquired on 23 April 2019 at 08:16:48; Title: Monitoring Highway 8 to Command Post

198c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes

199a Monitoring Pasadena to Deer Park Two Path, 64MSMS01031

199b TAGA File Event Summary; File: 64MSMS01031 Acquired on 23 April 2019 at 08:57:15; Title: Monitoring Pasadena to Deer Park

199c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes

200a Monitoring Deer Park to Channelview Path, 64MSMS01033

200b TAGA File Event Summary; File: 64MSMS01033 Acquired on 23 April 2019 at 09:47:20; Title: Monitoring Deer Park to Channelview Two

200c Monitoring Deer Park to Channelview Two in ppbv for Benzene, Toluene, and Xylenes

201a Monitoring Channelview Path, 64MSMS01034

201b TAGA File Event Summary; File: 64MSMS01034 Acquired on 23 April 2019 at 11:13:49; Title: Monitoring Channelview

201c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes

202a Monitoring Galena Park to Manchester Path, 64MSMS01036

202b TAGA File Event Summary; File: 64MSMS01036 Acquired on 23 April 2019 at 13:18:26; Title: Monitoring Galena Park to Manchester

202c Monitoring Galena Park to Manchester in ppbv for Benzene, Toluene, and Xylenes

203a Monitoring Manchester to Deer Park Path, 64MSMS01037

203b TAGA File Event Summary; File: 64MSMS01037 Acquired on 23 April 2019 at 14:09:56; Title: Monitoring Manchester to Deer Park

203c Monitoring Manchester to Deer Park in ppbv for Benzene, Toluene, and Xylenes

204a Monitoring Deer Park to Channelview Path, 64MSMS01038

204b TAGA File Event Summary; File: 64MSMS01038 Acquired on 23 April 2019 at 15:22:16; Title: Monitoring Deer Park to Channelview Three

204c Monitoring Deer Park to Channelview Three in ppbv for Benzene, Toluene, and Xylenes

205a Monitoring Highway 8 to Command Post Path, 64MSMS01041

205b TAGA File Event Summary; File: 64MSMS01041 Acquired on 24 April 2019 at 08:46:55; Title: Monitoring Highway 8 to Command Post

205c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes

206a Monitoring Pasadena to Deer Park Path, 64MSMS01042

206b TAGA File Event Summary; File: 64MSMS01042 Acquired on 24 April 2019 at 09:17:34; Title: Monitoring Pasadena to Deer Park

206c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes

207a Monitoring Deer Park to Channelview Path, 64MSMS01043

207b TAGA File Event Summary; File: 64MSMS01043 Acquired on 24 April 2019 at 10:12:32; Title: Monitoring Deer Park to Channelview

207c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes

208a Monitoring Channelview Path, 64MSMS01044

208b TAGA File Event Summary; File: 64MSMS01044 Acquired on 24 April 2019 at 11:23:53; Title: Monitoring Channelview

- 208c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 209a Monitoring Channelview to Deer Park Path, 64MSMS01046
- 209b TAGA File Event Summary; File: 64MSMS01046 Acquired on 24 April 2019 at 13:31:08; Title: Monitoring Channelview to Deer Park
- 209c Monitoring Channelview to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 210a Monitoring Deer Park to Channelview Path, 64MSMS01047
- 210b TAGA File Event Summary; File: 64MSMS01047 Acquired on 24 April 2019 at 14:24:52; Title: Monitoring Deer Park to Channelview
- 210c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 211a Monitoring Channelview to Deer Park Two Path, 64MSMS01048
- 211b TAGA File Event Summary; File: 64MSMS01048 Acquired on 24 April 2019 at 15:23:08; Title: Monitoring Channelview to Deer Park Two
- 211c Monitoring Channelview to Deer Park Two in ppbv for Benzene, Toluene, and Xylenes
- 212a Monitoring Highway 8 to Command Post Path, 64MSMS01051
- 212b TAGA File Event Summary; File: 64MSMS01051 Acquired on 25 April 2019 at 08:45:56; Title: Monitoring Highway 8 to Command Post
- 212c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 213a Monitoring Pasadena to Deer Path, 64MSMS01052
- 213b TAGA File Event Summary; File: 64MSMS01052 Acquired on 25 April 2019 at 09:13:32; Title: Monitoring Pasadena to Deer Park
- 213c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 214a Monitoring Deer Park to La Porte Path, 64MSMS01053
- 214b TAGA File Event Summary; File: 64MSMS01053 Acquired on 25 April 2019 at 09:52:25; Title: Monitoring Deer Park to La Porte
- 214c Monitoring Deer Park to La Porte in ppbv for Benzene, Toluene, and Xylenes
- 215a Monitoring Deer Park to La Porte Two Path, 64MSMS01054
- 215b TAGA File Event Summary; File: 64MSMS01054 Acquired on 25 April 2019 at 11:09:02; Title: Monitoring Deer Park to La Porte Two
- 215c Monitoring Deer Park to La Porte Two in ppbv for Benzene, Toluene, and Xylenes
- 216a Monitoring Deer Park Path, 64MSMS01056
- 216b TAGA File Event Summary; File: 64MSMS01056 Acquired on 25 April 2019 at 13:56:22; Title: Monitoring Deer Park

- 216c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 217a Monitoring Deer Park to La Porte Three Path, 64MSMS01057
- 217b TAGA File Event Summary; File: 64MSMS01057 Acquired on 25 April 2019 at 15:10:22; Title: Monitoring Deer Park to La Porte Three
- 217c Monitoring Deer Park to La Porte Three in ppbv for Benzene, Toluene, and Xylenes
- 218a Monitoring Highway 8 to Command Post Path, 64MSMS01060
- 218b TAGA File Event Summary; File: 64MSMS01060 Acquired on 26 April 2019 at 08:22:27; Title: Monitoring Highway 8 to Command Post
- 218c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 219a Monitoring Pasadena to Deer Park Path, 64MSMS01061
- 219b TAGA File Event Summary; File: 64MSMS01061 Acquired on 26 April 2019 at 08:50:30; Title: Monitoring Pasadena to Deer Park
- 219c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 220a Monitoring Deer Park Path, 64MSMS01062
- 220b TAGA File Event Summary; File: 64MSMS01062 Acquired on 26 April 2019 at 09:53:19; Title: Monitoring Deer Park
- 220c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 221a Monitoring Deer Park Two Path, 64MSMS01063
- 221b TAGA File Event Summary; File: 64MSMS01063 Acquired on 26 April 2019 at 10:56:48; Title: Monitoring Deer Park Two
- 221c Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes
- 222a Monitoring Deer Park Three Path, 64MSMS01064
- 222b TAGA File Event Summary; File: 64MSMS01064 Acquired on 26 April 2019 at 12:01:31; Title: Monitoring Deer Park Three
- 222c Monitoring Deer Park Three in ppbv for Benzene, Toluene, and Xylenes
- 223a Monitoring Deer Park Four Path, 64MSMS01066
- 223b TAGA File Event Summary; File: 64MSMS01066 Acquired on 26 April 2019 at 14:02:40; Title: Monitoring Deer Park Four
- 223c Monitoring Deer Park Four in ppbv for Benzene, Toluene, and Xylenes
- 224a Monitoring Deer Park Five Path, 64MSMS01067
- 224b TAGA File Event Summary; File: 64MSMS01067 Acquired on 26 April 2019 at 15:18:03; Title: Monitoring Deer Park Five

- 224c Monitoring Deer Park Five in ppbv for Benzene, Toluene, and Xylenes
- 225a Monitoring Highway 8 to Command Post Path, 64MSMS01070
- 225b TAGA File Event Summary; File: 64MSMS01070 Acquired on 27 April 2019 at 08:07:19; Title: Monitoring Highway 8 to Command Post
- 225c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 226a Monitoring Pasadena to Deer Park Path, 64MSMS01071
- 226b TAGA File Event Summary; File: 64MSMS01071 Acquired on 27 April 2019 at 08:39:19; Title: Monitoring Pasadena to Deer Park
- 226c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 227a Monitoring Deer Park to Channelview Path, 64MSMS01072
- 227b TAGA File Event Summary; File: 64MSMS01072 Acquired on 27 April 2019 at 09:29:31; Title: Monitoring Deer Park to Channelview
- 227c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 228a Monitoring Channelview to Baytown Path, 64MSMS01073
- 228b TAGA File Event Summary; File: 64MSMS01073 Acquired on 27 April 2019 at 10:44:56; Title: Monitoring Channelview to Baytown
- 228c Monitoring Channelview to Baytown in ppbv for Benzene, Toluene, and Xylenes
- 229a Monitoring Baytown to Channelview Path, 64MSMS01075
- 229b TAGA File Event Summary; File: 64MSMS01075 Acquired on 27 April 2019 at 13:10:07; Title: Monitoring Baytown to Channelview
- 229c Monitoring Baytown to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 230a Monitoring Channelview Path, 64MSMS01076
- 230b TAGA File Event Summary; File: 64MSMS01076 Acquired on 27 April 2019 at 14:05:35; Title: Monitoring Channelview
- 230c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 231a Monitoring Galena Park Path, 64MSMS01077
- 231b TAGA File Event Summary; File: 64MSMS01077 Acquired on 27 April 2019 at 15:22:03; Title: Monitoring Galena Park
- 231c Monitoring Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 232a Monitoring Highway 8 to Command Post Path, 64MSMS01080
- 232b TAGA File Event Summary; File: 64MSMS01080 Acquired on 28 April 2019 at 08:09:20; Title: Monitoring Highway 8 to Command Post

- 232c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 233a Monitoring Deer Park to Channelview Path, 64MSMS01081
- 233b TAGA File Event Summary; File: 64MSMS01081 Acquired on 28 April 2019 at 09:20:17; Title: Monitoring Deer Park to Channelview
- 233c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 234a Monitoring Channelview Path, 64MSMS01082
- 234b TAGA File Event Summary; File: 64MSMS01082 Acquired on 28 April 2019 at 10:39:32; Title: Monitoring Channelview
- 234c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 235a Monitoring Channelview Two Path, 64MSMS01085
- 235b TAGA File Event Summary; File: 64MSMS01085 Acquired on 28 April 2019 at 13:32:00; Title: Monitoring Channelview Two
- 235c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 236a Monitoring Channelview to Lynchburg Path, 64MSMS01086
- 236b TAGA File Event Summary; File: 64MSMS01086 Acquired on 28 April 2019 at 14:26:26; Title: Monitoring Channelview to Lynchburg
- 236c Monitoring Channelview to Lynchburg in ppbv for Benzene, Toluene, and Xylenes
- 237a Monitoring Channelview Three Path, 64MSMS01087
- 237b TAGA File Event Summary; File: 64MSMS01087 Acquired on 28 April 2019 at 15:32:38; Title: Monitoring Channelview Three
- 237c Monitoring Channelview Three in ppbv for Benzene, Toluene, and Xylenes
- 238a Monitoring Highway 8 to Command Post Path, 64MSMS01090
- 238b TAGA File Event Summary; File: 64MSMS01090 Acquired on 29 April 2019 at 08:40:24; Title: Monitoring Highway 8 to Command Post
- 238c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 239a Monitoring Deer Park to Channelview Path, 64MSMS01091
- 239b TAGA File Event Summary; File: 64MSMS01091 Acquired on 29 April 2019 at 09:48:23; Title: Monitoring Deer Park to Channelview
- 239c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 240a Monitoring Channelview Path, 64MSMS01092
- 240b TAGA File Event Summary; File: 64MSMS01092 Acquired on 29 April 2019 at 11:03:17; Title: Monitoring Channelview

- 240c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 241a Monitoring Channelview Two Path, 64MSMS01095
- 241b TAGA File Event Summary; File: 64MSMS01095 Acquired on 29 April 2019 at 13:16:46; Title: Monitoring Channelview Two
- 241c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 242a Monitoring Channelview Three Path, 64MSMS01096
- 242b TAGA File Event Summary; File: 64MSMS01096 Acquired on 29 April 2019 at 14:23:52; Title: Monitoring Channelview Three
- 242c Monitoring Channelview Three in ppbv for Benzene, Toluene, and Xylenes
- 243a Monitoring Channelview Four Path, 64MSMS01097
- 243b TAGA File Event Summary; File: 64MSMS01097 Acquired on 29 April 2019 at 15:16:57; Title: Monitoring Channelview Four
- 243c Monitoring Channelview Four in ppbv for Benzene, Toluene, and Xylenes
- 244a Monitoring Highway 8 to Command Post Path, 64MSMS01100
- 244b TAGA File Event Summary; File: 64MSMS01100 Acquired on 30 April 2019 at 08:47:09; Title: Monitoring Highway 8 to Deer Park
- 244c Monitoring Highway 8 to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 245a Monitoring Deer Park to Channelview Path, 64MSMS01101
- 245b TAGA File Event Summary; File: 64MSMS01101 Acquired on 30 April 2019 at 10:06:50; Title: Monitoring Deer Park to Channelview
- 245c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 246a Monitoring Channelview Path, 64MSMS01102
- 246b TAGA File Event Summary; File: 64MSMS01102 Acquired on 30 April 2019 at 10:49:28; Title: Monitoring Channelview
- 246c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 247a Monitoring Channelview Two Path, 64MSMS01103
- 247b TAGA File Event Summary; File: 64MSMS01103 Acquired on 30 April 2019 at 11:36:36; Title: Monitoring Channelview Two
- 247c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 248a Monitoring Channelview Three Path, 64MSMS01105
- 248b TAGA File Event Summary; File: 64MSMS01105 Acquired on 30 April 2019 at 14:21:11; Title: Monitoring Channelview Three

248c Monitoring Channelview Three in ppbv for Benzene, Toluene, and Xylenes

249a Monitoring Channelview to Lynchburg Path, 64MSMS01106

249b TAGA File Event Summary; File: 64MSMS01106 Acquired on 30 April 2019 at 15:16:10; Title: Monitoring Channelview to Lynchburg

249c Monitoring Channelview to Lynchburg in ppbv for Benzene, Toluene, and Xylenes

250a Monitoring Highway 8 to Command Post, 64MSMS01109

250b TAGA File Event Summar; File: 64MSMS01109 Acquired on 01 May 2019 at 08:25:0; Title: Monitoring Highway 8 to Deer Park

250c Monitoring Highway 8 to Deer Park in ppbv for Benzene, Toluene, and Xylenes

251a Monitoring Highway 8 to Deer Park Two Path, 64MSMS01110

251b TAGA File Event Summary; File: 64MSMS01110 Acquired on 01 May 2019 at 08:58:08; Title: Monitoring Highway 8 to Deer Park Two

251c Monitoring Highway 8 to Deer Park Two in ppbv for Benzene, Toluene, and Xylenes

252a Monitoring Deer Park to Channelview Path, 64MSMS01111

252b TAGA File Event Summary; File: 64MSMS01111 Acquired on 01 May 2019 at 10:36:27; Title: Monitoring Deer Park to Channelview

252c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes

253a Monitoring Channelview Path, 64MSMS01112

253b TAGA File Event Summary; File: 64MSMS01112 Acquired on 01 May 2019 at 11:46:54; Title: Monitoring Channelview

253c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes

254a Monitoring Channelview Two Path, 64MSMS01114

254b TAGA File Event Summary; File: 64MSMS01114 Acquired on 01 May 2019 at 14:03:26; Title: Monitoring Channelview Two

254c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes

255a Monitoring Channelview Three Path, 64MSMS01115

255b TAGA File Event Summary; File: 64MSMS01115 Acquired on 01 May 2019 at 14:55:40; Title: Monitoring Channelview Three

255c Monitoring Channelview Three in ppbv for Benzene, Toluene, and Xylenes

256a Monitoring Highway 8 to Command Post Path, 64MSMS01118

256b TAGA File Event Summary; File: 64MSMS01118 Acquired on 02 May 2019 at 08:22:02; Title: Monitoring Highway 8 to Command Post

- 256c Monitoring Highway to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 257a Monitoring Pasadena to Galena Park Path, 64MSMS01119
- 257b TAGA File Event Summary; File: 64MSMS01119 Acquired on 02 May 2019 at 09:39:11; Title: Monitoring Pasadena to Galena Park
- 257c Monitoring Pasadena to Galena Park in ppbv for Benzene, Toluene, and Xylenes
- 258a Monitoring Jacinto City to Channelview Path, 64MSMS01120
- 258b TAGA File Event Summary; File: 64MSMS01120 Acquired on 02 May 2019 at 11:01:51; Title: Monitoring Jacinto City to Channelview
- 258c Monitoring Jacinto City to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 259a Monitoring Channelview Path, 64MSMS01123
- 259b TAGA File Event Summary; File: 64MSMS01123 Acquired on 02 May 2019 at 13:43:38; Title: Monitoring Channelview
- 259c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 260a Monitoring Channelview Two Path, 64MSMS01124
- 260b TAGA File Event Summary; File: 64MSMS01124 Acquired on 02 May 2019 at 14:50:25; Title: Monitoring Channelview Two
- 260c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 261a Monitoring Channelview to Command Post Path, 64MSMS01125
- 261b TAGA File Event Summary; File: 64MSMS01125 Acquired on 02 May 2019 at 16:05:05; Title: Monitoring Channelview to Command Post
- 261c Monitoring Channelview to Command Post in ppb for Benzene, Toluene, and Xylenes
- 262a Monitoring Pasadena to Deer Park Path, 64MSMS01129
- 262b TAGA File Event Summary; File: 64MSMS01129 Acquired on 07 May 2019 at 12:41:27; Title: Monitoring Pasadena to Deer Park
- 262c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 263a Monitoring Deer Park to Channelview Path, 64MSMS01130
- 263b TAGA File Event Summary; File: 64MSMS01130 Acquired on 07 May 2019 at 13:35:50; Title: Monitoring Deer Park to Channelview
- 263c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes
- 264a Monitoring Channelview Path, 64MSMS01131
- 264b TAGA File Event Summary; File: 64MSMS01131 Acquired on 07 May 2019 at 15:31:29; Title: Monitoring Channelview

- 264c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 265a Monitoring Channelview to Pasadena Path, 64MSMS01132
- 265b TAGA File Event Summary; File: 64MSMS01132 Acquired on 07 May 2019 at 16:55:04; Title: Monitoring Channelview to Pasadena
- 265c Monitoring Channelview to Pasadena in ppbv for Benzene, Toluene, and Xylenes
- 266a Monitoring Highway 8 to Command Post Path, 64MSMS01134
- 266b TAGA File Event Summary; File: 64MSMS01134 Acquired on 08 May 2019 at 11:55:50; Title: Monitoring Highway 8 to Command Post
- 266c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 267a Monitoring Pasadena to Deer Park Path, 64MSMS01135
- 267b TAGA File Event Summary; File: 64MSMS01135 Acquired on 08 May 2019 at 12:24:49; Title: Monitoring Pasadena to Deer Park
- 267c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 268a Monitoring Channelview Path, 64MSMS01136
- 268b TAGA File Event Summary; File: 64MSMS01136 Acquired on 08 May 2019 at 13:46:10; Title: Monitoring Channelview
- 268c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes
- 269a Monitoring Channelview Two Path, 64MSMS01137
- 269b TAGA File Event Summary; File: 64MSMS01137 Acquired on 08 May 2019 at 15:04:05; Title: Monitoring Channelview Two
- 269c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes
- 270a Monitoring Highway 8 to Command Post Path, 64MSMS01140
- 270b TAGA File Event Summary; File: 64MSMS01140 Acquired on 09 May 2019 at 08:04:45; Title: Monitoring Highway 8 to Command Post
- 270c Monitoring Highway 8 to Command Post in ppbv for Benzene, Toluene, and Xylenes
- 271a Monitoring Pasadena to Deer Park Path, 64MSMS01141
- 271b TAGA File Event Summary; File: 64MSMS01141 Acquired on 09 May 2019 at 08:54:28; Title: Monitoring Pasadena to Deer Park
- 271c Monitoring Pasadena to Deer Park in ppbv for Benzene, Toluene, and Xylenes
- 272a Monitoring Deer Park to Channelview Path, 64MSMS01142
- 272b TAGA File Event Summary; File: 64MSMS01142 Acquired on 09 May 2019 at 09:53:38; Title: Monitoring Deer Park to Channelview

272c Monitoring Deer Park to Channelview in ppbv for Benzene, Toluene, and Xylenes

273a Monitoring Channelview Path, 64MSMS01143

273b TAGA File Event Summary; File: 64MSMS01143 Acquired on 09 May 2019 at 11:09:06; Title: Monitoring Channelview

273c Monitoring Channelview in ppbv for Benzene, Toluene, and Xylenes

274a Monitoring Channelview Two Path, 64MSMS01144

274b TAGA File Event Summary; File: 64MSMS01144 Acquired on 09 May 2019 at 12:46:44; Title: Monitoring Channelview Two

274c Monitoring Channelview Two in ppbv for Benzene, Toluene, and Xylenes

275a Monitoring Highway 8 to ITC Site Path, 64MSMS01148

275b TAGA File Event Summary; File: 64MSMS01148 Acquired on 10 May 2019 at 09:30:17; Title: Monitoring Highway 8 to ITC Site

275c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes

276a Monitoring Independence Parkway Path, 64MSMS01149

276b TAGA File Event Summary; File: 64MSMS01149 Acquired on 10 May 2019 at 10:12:15; Title: Monitoring Independence Parkway

276c Monitoring Independence Parkway in ppbv for Benzene, Toluene, and Xylenes

277a Monitoring Deer Park Path, 64MSMS01150

277b TAGA File Event Summary; File: 64MSMS01150 Acquired on 10 May 2019 at 12:00:07; Title: Monitoring Deer Park

277c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes

278a Monitoring Deer Park Two Path, 64MSMS01151

278b TAGA File Event Summary; File: 64MSMS01151 Acquired on 10 May 2019 at 12:55:42; Title: Monitoring Deer Park Two

278c Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes

279a Monitoring Deer Park Three Path, 64MSMS01152

279b TAGA File Event Summary; File: 64MSMS01152 Acquired on 10 May 2019 at 13:43:54; Title: Monitoring Deer Park Three

279c Monitoring Deer Park Three in ppbv for Benzene, Toluene, and Xylenes

280a Monitoring Texas City to Deer Park Path, 64MSMS01179

280b TAGA File Event Summary; File: 64MSMS01179 Acquired on 13 May 2019 at 12:16:29; Title: Monitoring Texas City to Deer Park

280c Monitoring Texas City to Deer Park in ppbv for Benzene, Toluene, and Xylenes

281a Monitoring Deer Park Path, 64MSMS01181

281b TAGA File Event Summary; File: 64MSMS01181 Acquired on 13 May 2019 at 13:53:39; Title: Monitoring Deer Park

281c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes

282a Monitoring Deer Park Two Path, 64MSMS01182

282b TAGA File Event Summary; File: 64MSMS01182 Acquired on 13 May 2019 at 15:28:00; Title: Monitoring Deer Park Two

282c Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes

283a Monitoring Highway 8 to ITC Site Path, 64MSMS01185

283b TAGA File Event Summary; File: 64MSMS01185 Acquired on 14 May 2019 at 08:51:17; Title: Monitoring Highway 8 to ITC Site

283c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes

284a Monitoring Deer Park Path, 64MSMS01190

284b TAGA File Event Summary; File: 64MSMS01190 Acquired on 14 May 2019 at 14:09:58; Title: Monitoring Deer Park

284c Monitoring Deer Park in ppbv for Benzene, Toluene, and Xylenes

285a Monitoring Deer Park Two Path, 64MSMS01191

285b TAGA File Event Summary; File: 64MSMS01191 Acquired on 14 May 2019 at 15:28:14; Title: Monitoring Deer Park Two

285c Monitoring Deer Park Two in ppbv for Benzene, Toluene, and Xylenes

286a Monitoring Highway 8 to ITC Site Path, 64MSMS01194

286b TAGA File Event Summary; File: 64MSMS01194 Acquired on 16 May 2019 at 08:03:48; Title: Monitoring Highway 8 to ITC Site

286c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes

287a Monitoring ITC Site Two Path, 64MSMS01196

287b TAGA File Event Summary; File: 64MSMS01196 Acquired on 16 May 2019 at 09:25:10; Title: Monitoring ITC Site Two

287c Monitoring ITC Site Two in ppbv for Benzene, Toluene, and Xylenes

288a Monitoring ITC Site Three Path, 64MSMS01197

288b TAGA File Event Summary; File: 64MSMS01197 Acquired on 16 May 2019 at 10:57:26; Title: Monitoring ITC Site Three

288c Monitoring ITC Site Three in ppbv for Benzene, Toluene, and Xylenes

289a Monitoring ITC Site Four Path, 64MSMS01199

289b TAGA File Event Summary; File: 64MSMS01199 Acquired on 16 May 2019 at 13:41:31; Title: Monitoring ITC Site Four

289c Monitoring ITC Site Four in ppbv for Benzene, Toluene, and Xylenes

290a Monitoring ITC Site Five Path, 64MSMS01200

290b TAGA File Event Summary; File: 64MSMS01200 Acquired on 16 May 2019 at 14:38:59; Title: Monitoring ITC Site Five

290c Monitoring ITC Site Five in ppbv for Benzene, Toluene, and Xylenes

291a Monitoring ITC Site Six Path, 64MSMS01201

291b TAGA File Event Summary; File: 64MSMS01201 Acquired on 16 May 2019 at 15:47:35; Title: Monitoring ITC Site Six

291c Monitoring ITC Site Six in ppbv for Benzene, Toluene, and Xylenes

292a Monitoring Highway 8 to ITC Site Path, 64MSMS01204

292b TAGA File Event Summary; File: 64MSMS01204 Acquired on 17 May 2019 at 07:52:33; Title: Monitoring Highway 8 to ITC Site

292c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes

293a Monitoring ITC Site Path, 64MSMS01205

293b TAGA File Event Summary; File: 64MSMS01205 Acquired on 17 May 2019 at 08:39:39; Title: Monitoring ITC Site

293c Monitoring ITC Site in ppbv for Benzene, Toluene, and Xylenes

294a Monitoring ITC Site Two Path, 64MSMS01206

294b TAGA File Event Summary; File: 64MSMS01206 Acquired on 17 May 2019 at 09:38:19; Title: Monitoring ITC Site Two

294c Monitoring ITC Site Two in ppbv for Benzene, Toluene, and Xylenes

295a Monitoring ITC Site Three Path, 64MSMS01207

295b TAGA File Event Summary; File: 64MSMS01207 Acquired on 17 May 2019 at 10:57:14; Title: Monitoring ITC Site Three

295c Monitoring ITC Site Three in ppbv for Benzene, Toluene, and Xylenes

296a Monitoring ITC Site Four Path, 64MSMS01209

296b TAGA File Event Summary; File: 64MSMS01209 Acquired on 17 May 2019 at 13:28:18; Title: Monitoring ITC Site Four

- 296c Monitoring ITC Site Four in ppbv for Benzene, Toluene, and Xylenes
- 297a Monitoring ITC Site Five Path, 64MSMS01210
- 297b TAGA File Event Summary; File: 64MSMS01210 Acquired on 17 May 2019 at 14:26:44; Title: Monitoring ITC Site Five
- 297c Monitoring ITC Site Five in ppbv for Benzene, Toluene, and Xylenes
- 298a Monitoring Highway 8 to ITC Site Path, 64MSMS01213
- 298b TAGA File Event Summary; File: 64MSMS01213 Acquired on 18 May 2019 at 08:14:54; Title: Monitoring Highway 8 to ITC Site
- 298c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 299a Monitoring ITC Site Path, 64MSMS01214
- 299b TAGA File Event Summary; File: 64MSMS01214 Acquired on 18 May 2019 at 08:47:05; Title: Monitoring ITC Site
- 299c Monitoring ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 300a Monitoring ITC Site Two Path, 64MSMS01215
- 300b TAGA File Event Summary; File: 64MSMS01215 Acquired on 18 May 2019 at 09:57:50; Title: Monitoring ITC Site Two
- 300c Monitoring ITC Site Two in ppbv for Benzene, Toluene, and Xylenes
- 301a Monitoring ITC Site Three Path, 64MSMS01216
- 301b TAGA File Event Summary; File: 64MSMS01216 Acquired on 18 May 2019 at 11:17:52; Title: Monitoring ITC Site Three
- 301c Monitoring ITC Site Three in ppbv for Benzene, Toluene, and Xylenes
- 302a Monitoring ITC Site Four Path, 64MSMS01218
- 302b TAGA File Event Summary; File: 64MSMS01218 Acquired on 18 May 2019 at 14:31:05; Title: Monitoring ITC Site Four
- 302c Monitoring ITC Site Four in ppbv for Benzene, Toluene, and Xylenes
- 303a Monitoring ITC Site Five Path, 64MSMS01219
- 303b TAGA File Event Summary; File: 64MSMS01219 Acquired on 18 May 2019 at 15:42:44; Title: Monitoring ITC Site Five
- 303c Monitoring ITC Site Five in ppbv for Benzene, Toluene, and Xylenes
- 304a Monitoring Highway 8 to ITC Site Path, 64MSMS01222
- 304b TAGA File Event Summary; File: 64MSMS01222 Acquired on 19 May 2019 at 08:08:45; Title: Monitoring Highway 8 to ITC Site

- 304c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 305a Monitoring ITC Site Path, 64MSMS01223
- 305b TAGA File Event Summary; File: 64MSMS01223 Acquired on 19 May 2019 at 08:38:07; Title: Monitoring ITC Site
- 305c Monitoring ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 306a Monitoring ITC Site Two Path, 64MSMS01224
- 306b TAGA File Event Summary; File: 64MSMS01224 Acquired on 19 May 2019 at 10:15:13; Title: Monitoring ITC Site Two
- 306c Monitoring ITC Site Two in ppbv for Benzene, Toluene, and Xylenes
- 307a Monitoring ITC Site Three Path, 64MSMS01225
- 307b TAGA File Event Summary; File: 64MSMS01225 Acquired on 19 May 2019 at 11:20:15; Title: Monitoring ITC Site Three
- 307c Monitoring ITC Site Three in ppbv for Benzene, Toluene, and Xylenes
- 308a Monitoring ITC Site Four Path, 64MSMS01227
- 308b TAGA File Event Summary; File: 64MSMS01227 Acquired on 19 May 2019 at 13:32:18; Title: Monitoring ITC Site Four
- 308c Monitoring ITC Site Four in ppbv for Benzene, Toluene, and Xylenes
- 309a Monitoring ITC Site Five Path, 64MSMS01228
- 309b TAGA File Event Summary; File: 64MSMS01228 Acquired on 19 May 2019 at 14:47:12; Title: Monitoring ITC Site Five
- 309c Monitoring ITC Site Five in ppbv for Benzene, Toluene, and Xylenes
- 310a Monitoring ITC Site Six Path, 64MSMS01229
- 310b TAGA File Event Summary; File: 64MSMS01229 Acquired on 19 May 2019 at 16:06:26; Title: Monitoring ITC Site Six
- 310c Monitoring ITC Site Six in ppbv for Benzene, Toluene, and Xylenes
- 311a Monitoring Highway 8 to ITC Site Path, 64MSMS01232
- 311b TAGA File Event Summary; File: 64MSMS01232 Acquired on 20 May 2019 at 08:50:58; Title: Monitoring Highway 8 to ITC Site
- 311c Monitoring Highway 8 to ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 312a Monitoring ITC Site Path, 64MSMS01233
- 312b TAGA File Event Summary; File: 64MSMS01233 Acquired on 20 May 2019 at 09:41:44; Title: Monitoring ITC Site

- 312c Monitoring ITC Site in ppbv for Benzene, Toluene, and Xylenes
- 313a Monitoring ITC Site Two Path, 64MSMS01234
- 313b TAGA File Event Summary; File: 64MSMS01234 Acquired on 20 May 2019 at 11:02:45; Title: Monitoring ITC Site Two
- 313c Monitoring ITC Site Two in ppbv for Benzene, Toluene, and Xylenes
- 314a Monitoring ITC Site Three Path, 64MSMS01236
- 314b TAGA File Event Summary; File: 64MSMS01236 Acquired on 20 May 2019 at 14:08:23; Title: Monitoring ITC Site Three
- 314c Monitoring ITC Site Three in ppbv for Benzene, Toluene, and Xylenes
- 315a Monitoring ITC Site Four Path, 64MSMS01237
- 315b TAGA File Event Summary; File: 64MSMS01237 Acquired on 20 May 2019 at 15:14:17; Title: Monitoring ITC Site Four
- 315c Monitoring ITC Site Four in ppbv for Benzene, Toluene, and Xylenes
- 316a Monitoring ITC Site Five Path, 64MSMS01238
- 316b TAGA File Event Summary; File: 64MSMS01238 Acquired on 20 May 2019 at 16:25:30; Title: Monitoring ITC Site Five
- 316c Monitoring ITC Site Five in ppbv for Benzene, Toluene, and Xylenes

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1.0 INTRODUCTION

The United States Environmental Protection Agency (USEPA)/Environmental Response Team (ERT) issued Work Assignment (WA) Number SERAS-372, Intercontinental Terminals Company (Site) in Deer Park, Texas (TX), to Leidos Innovations under the Scientific, Engineering, Response and Analytical Services (SERAS) contract. As an element of this WA, SERAS personnel were to conduct target compound ambient air monitoring using the ECA Trace Atmospheric Gas Analyzer (TAGA) IIe, to provide assistance to the USEPA/ERT and EPA Region 6 during the emergency response operations following a fire at the Intercontinental Terminals Company in Deer Park, TX.

The TAGA air monitoring events conducted from 21 March 2019 to 20 May 2019 were screening in nature. Air monitoring for benzene, toluene, and total xylenes was performed in accordance with the SERAS Standard Operating Procedure (SOP) # 1711, *Trace Atmospheric Gas Analyzer (TAGA) IIe Operations*. Real-time monitoring for the target compounds was performed using a selected ion technique.

2.0 METHODOLOGY

2.1 Mass Spectrometer/Mass Spectrometer General Theory

The ECA TAGA IIe is based upon the Perkin-Elmer API 365 mass spectrometer/mass spectrometer (MS/MS) and is a direct air-monitoring instrument capable of detecting, in real time, trace levels of many organic compounds in ambient air. The technique of triple quadrupole MS/MS is used to differentiate and quantitate compounds.

The initial step in the MS/MS process involves simultaneous chemical ionization of the compounds present in a sample of ambient air. The ionization produces both positive and negative ions by donating or removing one or more electrons. The chemical ionization is a "soft" ionization technique, which allows ions to be formed with little or no structural fragmentation. These ions are called parent ions. The parent ions with different mass-to-charge (m/z) ratios are separated by the first quadrupole (the first MS of the MS/MS system). The quadrupole scans selected m/z ratios allowing only the parent ions with these ratios to pass through the quadrupole. Parent ions with m/z ratios different from those selected are discriminated electronically and fail to pass through the quadrupole.

The parent ions selected in the first quadrupole are accelerated through a collision cell containing uncharged nitrogen molecules in the second quadrupole. A portion of the parent ions entering the second quadrupole fragments as they collide with the nitrogen molecules. These fragment ions are called daughter ions. This process, in the second quadrupole, is called collision induced dissociation. The daughter ions are separated according to their m/z ratios by the third quadrupole (the second MS of the MS/MS system). The quadrupole scans selected m/z ratios, allowing only the daughter ions with these ratios to pass through the quadrupole. Daughter ions with m/z ratios different from those selected are discriminated electronically and fail to pass through the quadrupole. Daughter ions with the selected m/z ratios are then counted by an electron multiplier. The resulting signals are measured in ion counts per second (icps) for each parent/daughter ion pair selected. The intensity of the icps for each parent/daughter ion pair is directly proportional to the ambient air concentration of the organic compound that produced the ion pair. All of the ions discussed in this report have a single charge. The m/z ratios of all of the ions discussed are equal to the ion masses in atomic mass units (amu). Therefore, the terms parent and daughter masses are synonymous with parent and daughter ion m/z ratios.

2.2 TAGA Procedure

The TAGA was used to analyze outdoor ambient air during mobile and stationary monitoring events. For mobile and stationary monitoring, one end of a 4-foot corrugated Teflon® sampling hose was attached to the TAGA source inlet, while the other was attached to a glass transfer tube passing through the wall of the vehicle during the monitoring event. Air was continuously drawn

through the hose at a set flow rate and transported to the TAGA source during the monitoring event.

2.2.1 TAGA Mass Calibration

At the beginning of the monitoring period, a gas mixture containing benzene, toluene, xylenes, tetrachloroethene, trichloroethene, 1,1-dichloroethene, and vinyl chloride was introduced by a mass flow controller (MFC) into the sample air flow (SAF). The tuning parameters for the first quadrupole at 30, 78, 106, 130, and 166 amu, and the third quadrupole at 30, 78, 105, 129, and 166 amu were optimized for sensitivity and mass assignment. The peak widths were limited between 0.55 amu and 0.85 amu. The mass assignments were set to the correct values within 0.15 amu.

2.2.2 TAGA Response Factor Measurements

The TAGA was calibrated for the target compounds at the beginning, beginning and end, or beginning, middle, and end of the day depending on environmental constraints. The calibration system consisted of a regulated gas cylinder containing a gas standard mixture of the target compounds connected to an in-line MFC. The MFC was calibrated with a National Institute of Standards and Technology (NIST) traceable flow rate meter. The gas standard certification is presented in Appendix A. The gas standard containing a known mixture of target compounds, certified by the supplier, was regulated at preset flow rates, and diluted with ambient air. The dilution of the gas standard resulted in known analyte concentrations. The calibration consisted of a zero point and five known concentrations obtained by setting the MFC to 0, 10, 20, 40, 80, and 90 milliliters per minute (mL/min) with the SAF at 1,500 milliliters per second (mL/sec).

The approximate concentration range of standards introduced into the TAGA was between 1 and 30 parts per billion by volume (ppbv). Utilizing the analytes' concentrations, gas flow rates, and air sampling flow rates, the response factors (RFs), in units of ion counts per second per part per billion by volume (icps/ppbv), were calculated for each ion pair by using a least-square-fit algorithm to calculate the slope of its curve. The coefficient of correlation was checked for each ion pair's RF to ensure that it was greater than 0.90. The RF of each analyte was used to quantify the target compounds in ambient air and the intermediate response factor (IRF) were calculated between pairs of calibrations. Both the RF and the IRF were used to quantify target compounds in ambient air. Calibration data are included in [Appendix B](#).

2.2.3 TAGA Air Monitoring

TAGA monitoring was performed by continuously drawing air through the Teflon® hose at a flow-rate of approximately 1,500 mL/sec. The air was then passed through a glass splitter where the pressure gradient between the mass spectrometer core and the atmosphere causes a sample flow of approximately 10 mL/min into the ionization source through a heated transfer line. The flow into the TAGA source was controlled so that the ionization source pressure was maintained at an optimum value of approximately 1.8 torr. The remaining airflow was drawn through the air pump and vented from the TAGA bus.

Monitoring was performed in the parent/daughter ion-monitoring mode. As monitoring proceeded, the operator pressed letter keys (flags), alphabetically on a computer keyboard, to denote events or locations during the monitoring event. This information was also recorded on an event log sheet. The intensity of each parent/daughter ion pair monitored by the TAGA was recorded in a permanent file on the computer's hard drive. One set of recorded measurements of all the ion pairs is called a sequence.

Mobile monitoring was conducted continuously along a recorded path. Stationary

monitoring was conducted continuously at a fixed location. At the conclusion of mobile or stationary monitoring event, a one-minute ambient data segment was collected. Upon completion of the one-minute post-monitoring ambient data segment, the instrumentation was challenged with the calibration standard, which was introduced at 30 mL/min (approximately 6.7 ppbv, and total xylenes at approximately 10 ppbv), to verify that the system was functioning properly.

2.3 Global Positioning System (GPS) and Tracking

The mobile laboratory is equipped with a Trimble Pro 6T GPS receiver that streams geographical coordinates to a personal computer. The coordinates represent position of the TAGA mobile laboratory in real-time. The instrument data are synchronized with the GPS coordinates, so the monitoring data can be directly associated with the position of the mobile laboratory as indicated by the GPS system at any time during the mobile monitoring period. The synchronized information is recorded into the data repository (database) and uploaded to the USEPA/ERT VIPER data management system in real-time to be archived on a USEPA/ERT server.

2.4 Meteorological Monitoring

United States Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center provided the meteorological data for one weather station in the vicinity of mobile monitoring events. Data were collected from the William P Hobby Airport located in Houston, TX from 09 May 2019 through 16 May 2019.

The Texas Commission on Environmental Quality (TCEQ) provided the meteorological data for two weather stations in the vicinity of the mobile monitoring and stationary monitoring events. Data were collected from the Houston Deer Park #2 weather station located in Deer Park, TX from 19 March 2019 through 20 May 2019 and from the La Porte Municipal Airport weather station located in La Porte, TX from 19 March 2019 through 20 May 2019.

Meteorological data, such as wind speed, wind direction, and rainfall, are summarized in Table 1 for the beginning of the period during which monitoring occurred. The compiled meteorological data are presented in Appendix C. The reported data for rainfall are an average of the data recorded during the hour preceding the time recorded in the table. The reported meteorological data for wind speed and direction represent a five-minute average collected prior to the time recorded in the table. Because of the distance of the meteorological monitoring location from the study location and the short averaging period, care should be exercised in relating meteorological conditions existing at the Site.

3.0 TAGA AIR MONITORING RESULTS

The TAGA was used to conduct Mobile Monitoring and Stationary Monitoring at and around the Site.

3.1 Mobile Monitoring Paths and Stationary Locations

Figures 1a, 2a, 4a through 130a, and 132a through 316a present the monitoring paths taken by the TAGA mobile laboratory as it traveled in the vicinity of the Site. Figures 3a and 131a present the locations where stationary monitoring was conducted in the vicinity of the Site. The maps, representing the monitoring path and stationary locations are marked by letters. These letters are the "flags" that the TAGA operator placed into the file. These "flags" mark events or locations and are referenced in the Discussion of Results presented in Section 4.0.

3.2 TAGA File Event Summaries

Figures 1b through 316b present the TAGA file event summaries. These are observations made during the file acquisition by the TAGA operator, along with the time from the TAGA file and the

letter “flags” used to mark the data, which are recorded by the TAGA computer.

3.3 Graphical Presentations

Figures 1c through 316c are the graphical representations of the TAGA files. A graph of each target compound concentration is presented in ppbv plotted on the vertical axis, and time into the acquisition, in minutes, on the horizontal axis. The target compound concentration was calculated by averaging the concentrations obtained from the ion pairs that were monitored for each target compound. There are two horizontal lines on each graph. The lower line is set at the detection limit (DL) for the compound. The higher line is set at the concentration equal to the quantitation limit (QL) for the target compound. When high concentrations are represented, the lower DL line may not be readily discerned. Transient momentary spikes above the QL line are occasionally observed. These spikes, electronic in nature, do not affect average concentrations. They may be distinguished from elevated concentrations because the spikes are only present for one sequence and are often only present for one ion pair of the monitored compound.

4.0 DISCUSSION OF RESULTS

TAGA mobile monitoring and stationary monitoring was conducted between 21 March 2019 and 20 May 2019. The TAGA monitoring is screening in nature. During each mobile or stationary monitoring period, the TAGA mobile laboratory monitored continuously while moving along the monitoring paths on remaining stationary in a fixed location. Only mobile or stationary monitoring events that contained instantaneous maximum concentrations of a target compound above the short-term Air Monitoring Comparison Values (AMCVs), as determined by the TCEQ, are discussed below. The AMCVs for benzene, toluene, and total xylenes are 180 ppbv, 4,000 ppbv, and 1,700 ppbv respectively.

All results are presented in ppbv and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and include the time and location where the maximums were observed. A summary of instantaneous maximum concentrations in ppbv, and correlated meteorological data, for all monitoring runs is presented in Table 1.

4.1 Monitoring Highway 8 East, 64MSMS00709

Monitoring Highway 8 East was performed on 21 March 2019 at 8:54:24 and is represented in Figure 1. The average wind speed and direction for the five-minute period ending at 9:00 were 3.3 miles per hour (mph) from 55 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 200 ppbv ($640 \mu\text{g}/\text{m}^3$), was detected at 13.790 minutes into the monitoring run while traveling North on Highway 8 between Greenshadow Drive and the Pasadena Freeway East ramp between flags F and G. The highest instantaneous maximum concentration of toluene, at 20 ppbv ($76 \mu\text{g}/\text{m}^3$), was detected at 15.095 minutes into the monitoring run while merging onto Highway 225 East between flags G and H. The highest instantaneous maximum concentration of xylenes, at 8.2 ppbv ($36 \mu\text{g}/\text{m}^3$), was detected at 16.431 minutes into the monitoring run while merging onto Highway 225 East between flags G and H. The concentration for benzene exceeded the linear calibration range and is considered estimated.

4.2 Monitoring Highway 225 West, 64MSMS00716

Monitoring Highway 225 West was performed on 21 March 2019 at 16:21:15 and is represented in Figure 7. The average wind speed and direction for the five-minute period ending at 17:00 were 3.6 mph from 331 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 3,300 ppbv ($11,000 \mu\text{g}/\text{m}^3$),

and toluene, at 720 ppbv (2,700 $\mu\text{g}/\text{m}^3$), were detected at 13.727 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags D and E. The highest instantaneous maximum concentration of xylenes, at 800 ppbv (3,500 $\mu\text{g}/\text{m}^3$), was detected at 13.769 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags D and E. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.3 Monitoring Independence Parkway to Battleground Park, 64MSMS00723

Monitoring Independence Parkway to Battleground Park was performed on 22 March 2019 at 12:58:32 and is represented in Figure 12. The average wind speed and direction for the five-minute period ending at 13:00 were 6.1 mph from 140 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 1,700 ppbv (5,400 $\mu\text{g}/\text{m}^3$), was detected at 9.194 minutes into the monitoring run while traveling northeast on Vista Road near the Site between flags E and F. The highest instantaneous maximum concentration of toluene, at 550 ppbv (2,100 $\mu\text{g}/\text{m}^3$), was detected at 9.215 minutes into the monitoring run while traveling northeast on Vista Road near the Site between flags E and F. The highest instantaneous maximum concentration of xylenes, at 600 ppbv (2,600 $\mu\text{g}/\text{m}^3$), was detected at 9.204 minutes into the monitoring run while traveling northeast on Vista Road near the Site between flags E and F. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.4 Monitoring Channelview Three, 64MSMS00727

Monitoring Channelview Three was performed on 22 March 2019 at 15:39:44 and is represented in Figure 14. The average wind speed and direction for the five-minute period ending at 16:00 were 10.3 mph from 128 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 1,100 ppbv (3,500 $\mu\text{g}/\text{m}^3$), was detected at 48.007 minutes into the monitoring run while stationary on Peninsula Street (San Jacinto Boulevard) between flags M and N. The highest instantaneous maximum concentrations of toluene, at 400 ppbv (1,500 $\mu\text{g}/\text{m}^3$), and xylenes, at 430 ppbv (1,900 $\mu\text{g}/\text{m}^3$), were detected at 48.354 minutes into the monitoring run while stationary on Peninsula Street (San Jacinto Boulevard) between flags M and N. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.5 Monitoring Highway 225 Eastbound, 64MSMS00731

Monitoring Highway 225 Eastbound was performed on 23 March 2019 at 9:02:05 and is represented in Figure 16. The average wind speed and direction for the five-minute period ending at 10:00 were 12.1 mph from 127 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 210 ppbv (660 $\mu\text{g}/\text{m}^3$), was detected at 31.651 minutes into the monitoring run while traveling east on Highway 10 between Dell Dale Street and Sheldon Road between flags R and S. The highest instantaneous maximum concentration of toluene, at 66 ppbv (250 $\mu\text{g}/\text{m}^3$), was detected at 31.672 minutes into the monitoring run while traveling east on Highway 10 between Dell Dale Street and Sheldon Road between flags R and S. The highest instantaneous maximum concentration of xylenes, at 62 ppbv (270 $\mu\text{g}/\text{m}^3$), was detected at 24.614 minutes into the monitoring run while traveling east on Market Street between Federal Road and Miles Street between flags N and O. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.6 Monitoring Northwest of Site, 64MSMS00735

Monitoring Northwest of Site was performed on 23 May 2019 at 14:46:26 and is represented in Figure 20. The average wind speed and direction for the five-minute period ending at 15:00 were 12.7 mph from 124 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 820 ppbv ($2,600 \mu\text{g}/\text{m}^3$), was detected at 54.960 minutes into the monitoring run while traveling west on Jacintoport Boulevard between flags K and L. The highest instantaneous maximum concentration of toluene, at 160 ppbv ($620 \mu\text{g}/\text{m}^3$), was detected at 55.002 minutes into the monitoring run while traveling west on Jacintoport Boulevard between flags K and L. The highest instantaneous maximum concentration of xylenes, at 130 ppbv ($550 \mu\text{g}/\text{m}^3$), was detected at 54.981 minutes into the monitoring run while traveling while traveling west on Jacintoport Boulevard between flags K and L. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.7 Monitoring Highway 10 East, 64MSMS00738

Monitoring Highway 10 East was performed on 24 March 2019 at 8:43:50 and is represented in Figure 21. The average wind speed and direction for the five-minute period ending at 9:00 were 10.1 mph from 161 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 210 ppbv ($670 \mu\text{g}/\text{m}^3$), was detected at 65.257 minutes into the monitoring run while traveling west on Jacintoport Boulevard between flags Q and R. The highest instantaneous maximum concentration of toluene, at 140 ppbv ($530 \mu\text{g}/\text{m}^3$), was detected at 65.447 minutes into the monitoring run while traveling west on Jacintoport Boulevard between flags Q and R. The highest instantaneous maximum concentration of xylenes, at 320 ppbv ($1,400 \mu\text{g}/\text{m}^3$), was detected at 65.478 minutes into the monitoring run while traveling while traveling west on Jacintoport Boulevard between flags K and L. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.8 Monitoring Lynchburg to Channelview, 64MSMS00743

Monitoring Lynchburg to Channelview was performed on 24 May 2019 at 15:14:11 and is represented in Figure 25. The average wind speed and direction for the five-minute period ending at 16:00 were 10.1 mph from 161 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 410 ppbv ($1,300 \mu\text{g}/\text{m}^3$), was detected at 80.446 minutes into the monitoring run while traveling east on Jacintoport Boulevard between flags X and Y. The highest instantaneous maximum concentration of toluene, at 150 ppbv ($580 \mu\text{g}/\text{m}^3$), was detected at 82.812 minutes into the monitoring run while traveling east on Jacintoport Boulevard between flags X and Y. The highest instantaneous maximum concentration of xylenes, at 200 ppbv ($870 \mu\text{g}/\text{m}^3$), was detected at 80.456 minutes into the monitoring run while traveling while traveling east on Jacintoport Boulevard between flags X and Y. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.9 Monitoring ITC Site and Vista Drive, 64MSMS00753

Monitoring ITC Site and Vista Drive was performed on 25 March 2019 at 15:48:25 and is represented in Figure 31. The average wind speed and direction for the five-minute period ending at 16:00 were 4.5 mph from 262 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 3,600 ppbv (12,000 $\mu\text{g}/\text{m}^3$), toluene, at 1,100 ppbv (4,200 $\mu\text{g}/\text{m}^3$), and xylenes, at 600 ppbv (2,600 $\mu\text{g}/\text{m}^3$), were detected at 10.014 minutes into the monitoring run while traveling northeast on Vista Road near the Site between flags C and D. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.10 Monitoring Independence Parkway, 64MSMS00765

Monitoring Independence Parkway was performed on 26 March 2019 at 15:58:10 and is represented in Figure 37. The average wind speed and direction for the five-minute period ending at 16:00 were 4.6 mph from 33 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 250 ppbv (790 $\mu\text{g}/\text{m}^3$), and toluene, at 99 ppbv (370 $\mu\text{g}/\text{m}^3$), were detected at 30.399 minutes into the monitoring run while stationary at the intersection of Independence Parkway and Vista Road near the Site between flags H and I. The highest instantaneous maximum concentration of xylenes, 210 ppb (900 $\mu\text{g}/\text{m}^3$), was detected at 30.388 minutes into the monitoring run while stationary at the intersection of Independence Parkway and Vista Road near the Site between flags H and I. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.11 Monitoring Channelview, 64MSMS00776

Monitoring Channelview was performed on 27 March 2019 at 15:20:51 and is represented in Figure 43. The average wind speed and direction for the five-minute period ending at 16:00 were 9.1 mph from 138 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 370 ppbv (1,200 $\mu\text{g}/\text{m}^3$), and toluene, at 67 ppbv (250 $\mu\text{g}/\text{m}^3$), were detected at 32.923 minutes into the monitoring run while traveling east on San Jacinto Boulevard (Peninsula Street) flags M and N. The highest instantaneous maximum concentration of xylenes, 28 ppb (120 $\mu\text{g}/\text{m}^3$), was detected at 32.892 minutes into the monitoring run while stationary at the intersection of Independence Parkway and Vista Road near the Site between flags H and I. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.12 Monitoring Channelview, 64MSMS00796

Monitoring Channelview was performed on 29 March 2019 at 11:11:15 and is represented in Figure 55. The average wind speed and direction for the five-minute period ending at 11:00 were 12.6 mph from 154 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 480 ppbv (1,500 $\mu\text{g}/\text{m}^3$), was detected at 21.963 minutes into the monitoring run while traveling north on Sheldon Road between flags I and J. The highest instantaneous maximum concentration of toluene, at 53 ppbv (200 $\mu\text{g}/\text{m}^3$), was detected at 22.100 minutes into the monitoring run while traveling north on Sheldon Road between flags I and J. The highest instantaneous maximum concentration of xylenes, at 28 ppbv (120 $\mu\text{g}/\text{m}^3$), was detected at 80.456 minutes into the monitoring run while traveling while traveling east on Market Street between flags J and K. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.13 Monitoring Channelview Two, 64MSMS00797

Monitoring Channelview Two was performed on 29 March 2019 at 12:05:22 and is represented in Figure 56. The average wind speed and direction for the five-minute period ending at 13:00 were 13.2 mph from 154 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 820 ppbv (2,600 $\mu\text{g}/\text{m}^3$), was detected at 16.125 minutes into the monitoring run while traveling south on Sheldon Road between flags E and F. The highest instantaneous maximum concentrations of toluene, at 98 ppbv (370 $\mu\text{g}/\text{m}^3$), and xylenes, at 36 ppbv (160 $\mu\text{g}/\text{m}^3$), were detected at 16.115 minutes into the monitoring run while traveling south on Sheldon Road between flags E and F. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.14 Monitoring Channelview Three, 64MSMS00800

Monitoring Channelview Three was performed on 29 March 2019 at 14:46:20 and is represented in Figure 57. The average wind speed and direction for the five-minute period ending at 15:00 were 12.5 mph from 155 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 1,600 ppbv (5,100 $\mu\text{g}/\text{m}^3$), was detected at 11.413 minutes into the monitoring run while traveling east on Jacintoport Boulevard between flags C and D. The highest instantaneous maximum concentration of toluene, at 230 ppbv (860 $\mu\text{g}/\text{m}^3$), was detected at 11.434 minutes into the monitoring run while traveling east on Jacintoport Boulevard between flags C and D. The highest instantaneous maximum concentration of xylenes, at 70 ppbv (300 $\mu\text{g}/\text{m}^3$), was detected at 11.676 minutes into the monitoring run while traveling east on Jacintoport Boulevard between flags C and D. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.15 Monitoring Channelview Two, 64MSMS00807

Monitoring Channelview Two was performed on 30 March 2019 at 9:54:35 and is represented in Figure 61. The average wind speed and direction for the five-minute period ending at 10:00 were 5.0 mph from 222 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 690 ppbv (2,200 $\mu\text{g}/\text{m}^3$), was detected at 8.552 minutes into the monitoring run while exiting from Highway 10 West onto the East Freeway Frontage Road at Magnolia Street between flags F and G. The highest instantaneous maximum concentration of toluene, at 83 ppbv (310 $\mu\text{g}/\text{m}^3$), was detected at 8.563 minutes into the monitoring run while exiting from Highway 10 West onto the East Freeway Frontage Road at Magnolia Street between flags F and G. The highest instantaneous maximum concentration of xylenes, at 29 ppbv (130 $\mu\text{g}/\text{m}^3$), was detected at 36.615 minutes into the monitoring run while traveling west on Market Street near the intersection with Monmouth Street between flags U and V. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.16 Monitoring Highland Channelview, 64MSMS00811

Monitoring Highland Channelview was performed on 30 March 2019 at 14:01:36 and is represented in Figure 63. The average wind speed and direction for the five-minute period ending at 15:00 were 5.5 mph from 337 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 200 ppbv (640 $\mu\text{g}/\text{m}^3$), and toluene, at 25 ppbv (94 $\mu\text{g}/\text{m}^3$), were detected at 70.253 minutes into the monitoring run while traveling southeast on Decker Drive between flags V and W. The instantaneous concentration of xylenes, at 13 ppbv (55 $\mu\text{g}/\text{m}^3$), was detected at 8.124 minutes into the monitoring run while traveling west on East Freeway Frontage Road near the intersection of Eastpoint Boulevard between flags D and E. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.17 Monitoring Deer Park, 64MSMS00812

Monitoring Deer Park was performed on 30 March 2019 at 15:24:03 and is represented in Figure 64. The average wind speed and direction for the five-minute period ending at 16:00 were 9.2 mph from 334 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 390 ppbv ($1,200 \mu\text{g}/\text{m}^3$), was detected at 23.636 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road between Miller Cutoff Road and Sens Road between flags J and K. The highest instantaneous maximum concentration of toluene, at 50 ppbv ($190 \mu\text{g}/\text{m}^3$), was detected at 23.678 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road between Miller Cutoff Road and Sens Road between flags J and K. The highest instantaneous maximum concentration of xylenes, at 16 ppbv ($69 \mu\text{g}/\text{m}^3$), was detected at 23.625 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road between Miller Cutoff Road and Sens Road between flags J and K. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.18 Monitoring Pasadena to Deer Park, 64MSMS00816

Monitoring Pasadena to Deer Park was performed on 31 March 2019 at 8:42:50 and is represented in Figure 66. The average wind speed and direction for the five-minute period ending at 9:00 were 6.3 mph from 25 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 1,000 ppbv ($3,300 \mu\text{g}/\text{m}^3$), was detected at 22.342 minutes into the monitoring run while traveling east on Thirteenth Street near the intersection of East Boulevard between flags I and J. The highest instantaneous maximum concentration of toluene, at 220 ppbv ($830 \mu\text{g}/\text{m}^3$), was detected at 22.321 minutes into the monitoring run while traveling east on Thirteenth Street near the intersection of East Boulevard between flags I and J. The highest instantaneous maximum concentration of xylenes, at 120 ppbv ($510 \mu\text{g}/\text{m}^3$), was detected at 22.363 minutes into the monitoring run while traveling east on Thirteenth Street near the intersection of East Boulevard between flags I and J. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.19 Monitoring Deer Park, 64MSMS00817

Monitoring Deer Park was performed on 31 March 2019 at 9:47:02 and is represented in Figure 67. The average wind speed and direction for the five-minute period ending at 10:00 were 6.7 mph from 14 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 840 ppbv ($2,700 \mu\text{g}/\text{m}^3$), was detected at 48.438 minutes into the monitoring run while traveling east on Thirteenth Street near San Jacinto Elementary School between flags P and Q. The highest instantaneous maximum concentration of toluene, at 150 ppbv ($580 \mu\text{g}/\text{m}^3$), was detected at 3.629 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road the intersection of East Boulevard between flags A and B. The highest instantaneous maximum concentration of xylenes, at 83 ppbv ($360 \mu\text{g}/\text{m}^3$), was detected at 3.566 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road the intersection of East Boulevard between flags A and B. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.20 Monitoring Deer Park Two, 64MSMS00818

Monitoring Deer Park Two was performed on 31 March 2019 at 11:01:18 and is represented in Figure 68. The average wind speed and direction for the five-minute period ending at 11:00 were 6.0 mph from 14 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 790 ppbv (2,500 $\mu\text{g}/\text{m}^3$), and xylenes, at 60 ppbv (260 $\mu\text{g}/\text{m}^3$), were detected at 29.242 minutes into the monitoring run while traveling west on X Street near the intersection of East Boulevard between flags L and M. The highest instantaneous maximum concentration of toluene, at 140 ppbv (540 $\mu\text{g}/\text{m}^3$), was detected at 29.231 minutes into the monitoring run while traveling west on X Street near the intersection of East Boulevard between flags L and M. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.21 Monitoring Deer Park Three, 64MSMS00822

Monitoring Deer Park Three was performed on 31 March 2019 at 12:46:23 and is represented in Figure 69. The average wind speed and direction for the five-minute period ending at 13:00 were 6.8 mph from 13 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 790 ppbv (2,500 $\mu\text{g}/\text{m}^3$), and toluene, at 120 ppbv (470 $\mu\text{g}/\text{m}^3$), were detected at 12.349 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road near the intersection of East Boulevard between flags H and I. The highest instantaneous maximum concentration of xylenes, at 60 ppbv (260 $\mu\text{g}/\text{m}^3$), was detected at 12.212 minutes into the monitoring run while traveling east on Pasadena Freeway Frontage Road near the intersection of East Boulevard between flags H and I. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.22 Monitoring Deer Park Four, 64MSMS00823

Monitoring Deer Park Four was performed on 31 March 2019 at 13:47:03 and is represented in Figure 70. The average wind speed and direction for the five-minute period ending at 14:00 were 5.5 mph from 359 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 390 ppbv (1,200 $\mu\text{g}/\text{m}^3$), and toluene, at 61 ppbv (230 $\mu\text{g}/\text{m}^3$), were detected at 19.186 minutes into the monitoring run while traveling west on Thirteenth Street near the intersection of East Boulevard between flags G and H. The highest instantaneous maximum concentration of xylenes, at 22 ppbv (96 $\mu\text{g}/\text{m}^3$), was detected at 19.512 minutes into the monitoring run while traveling west on Thirteenth Street near the intersection of East Boulevard between flags G and H. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.23 Monitoring Deer Park Five, 64MSMS00824

Monitoring Deer Park Five was performed on 31 March 2019 at 14:33:51 and is represented in Figure 71. The average wind speed and direction for the five-minute period ending at 15:00 were 5.9 mph from 18 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 450 ppbv (1,400 $\mu\text{g}/\text{m}^3$), was detected at 16.914 minutes into the monitoring run while traveling west on X Street between East Boulevard and Luella Ave between flags I and J. The highest instantaneous maximum concentration of toluene, at 68 ppbv (260 $\mu\text{g}/\text{m}^3$), was detected at 16.925 minutes into the monitoring run while traveling west on X Street between East Boulevard and Luella Avenue between flags I and J. The highest instantaneous maximum concentration of xylenes, at 27 ppbv (120 $\mu\text{g}/\text{m}^3$), was detected at 23.152 minutes into the monitoring run while traveling east on San Augustine Street between Luella Avenue and East Boulevard between flags K and L. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.24 Monitoring Deer Park Six, 64MSMS00825

Monitoring Deer Park Six was performed on 31 March 2019 at 15:33:55 and is represented in Figure 72. The average wind speed and direction for the five-minute period ending at 16:00 were 5.9 mph from 25 degrees. There was 0.01 inches of precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 400 ppbv ($1,300 \mu\text{g}/\text{m}^3$), was detected at 11.643 minutes into the monitoring run while traveling west on X Street between Luella Avenue and Center Street between flags G and H. The highest instantaneous maximum concentration of toluene, at 53 ppbv ($200 \mu\text{g}/\text{m}^3$), was detected at 11.624 minutes into the monitoring run while traveling west on X Street between Luella Avenue and Center Street between flags G and H. The highest instantaneous maximum concentration of xylenes, at 21 ppbv ($91 \mu\text{g}/\text{m}^3$), was detected at 11.613 minutes into the monitoring run while traveling west on X Street between Luella Avenue and Center Street between flags G and H. The concentration for benzene and toluene exceeded the linear calibration range and is considered estimated.

4.25 Monitoring Deer Park Three, 64MSMS00834

Monitoring Deer Park Three was performed on 01 April 2019 at 15:27:18 and is represented in Figure 78. The average wind speed and direction for the five-minute period ending at 16:00 were 2.9 mph from 33 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 5,000 ppbv ($16,000 \mu\text{g}/\text{m}^3$), was detected at 25.329 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The highest instantaneous maximum concentrations of toluene, at 2,500 ppbv ($9,400 \mu\text{g}/\text{m}^3$), and xylenes, at 2,600 ppbv ($11,000 \mu\text{g}/\text{m}^3$), were detected at 25.203 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.26 Monitoring Deer Park to Channelview, 64MSMS00858

Monitoring Deer Park to Channelview was performed on 04 April 2019 at 9:35:58 and is represented in Figure 26. The average wind speed and direction for the five-minute period ending at 10:00 were 9.6 mph from 200 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 2,400 ppbv ($7,600 \mu\text{g}/\text{m}^3$), and toluene, at 470 ppbv ($1,800 \mu\text{g}/\text{m}^3$), were detected at 45.872 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags K and L. The highest instantaneous maximum concentration of xylenes, at 2,400 ppbv ($10,000 \mu\text{g}/\text{m}^3$), was detected at 34.785 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.27 Monitoring Deer Park to Channelview, 64MSMS00898

Monitoring Deer Park to Channelview was performed on 08 April 2019 at 9:06:49 and is represented in Figure 27. The average wind speed and direction for the five-minute period ending at 9:00 were 8.8 mph from 329 degrees. There was 0.35 inches of precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 560 ppbv ($1,800 \mu\text{g}/\text{m}^3$), was detected at 25.234 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The highest instantaneous maximum concentration of toluene, at 300 ppbv ($1,100 \mu\text{g}/\text{m}^3$), was detected at 38.140 minutes into the monitoring run

while traveling south on Independence Parkway near the Site between flags M and N. The highest instantaneous maximum concentration of xylenes, at 880 ppbv ($3,800 \mu\text{g}/\text{m}^3$), was detected at 38.466 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags M and N. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.28 Monitoring Channelview to Pasadena, 64MSMS00903

Monitoring Channelview to Pasadena was performed on 08 April 2019 at 15:01:48 and is represented in Figure 28. The average wind speed and direction for the five-minute period ending at 16:00 were 7.5 mph from 327 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 750 ppbv ($2,400 \mu\text{g}/\text{m}^3$), was detected at 57.095 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags T and U. The highest instantaneous maximum concentration of toluene, at 530 ppbv ($2,000 \mu\text{g}/\text{m}^3$), was detected at 57.116 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags T and U. The highest instantaneous maximum concentration of xylenes, at 1,100 ppbv ($4,900 \mu\text{g}/\text{m}^3$), was detected at 45.020 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags Q and R. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.29 Monitoring Deer Park to Channelview, 64MSMS00907

Monitoring Deer Park to Channelview was performed on 09 April 2019 at 9:07:10 and is represented in Figure 29. The average wind speed and direction for the five-minute period ending at 10:00 were 6.5 mph from 256 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 650 ppbv ($2,100 \mu\text{g}/\text{m}^3$), was detected at 38.425 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags N and O. The highest instantaneous maximum concentration of toluene, at 660 ppbv ($2,500 \mu\text{g}/\text{m}^3$), was detected at 51.562 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags Q and R. The highest instantaneous maximum concentration of xylenes, at 850 ppbv ($3,700 \mu\text{g}/\text{m}^3$), was detected at 38.414 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags N and O. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.30 Monitoring Lynchburg to Pasadena, 64MSMS00913

Monitoring Lynchburg to Pasadena was performed on 09 April 2019 at 16:19:46 and is represented in Figure 30. The average wind speed and direction for the five-minute period ending at 17:00 were 3.2 mph from 333 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 2,300 ppbv ($7,300 \mu\text{g}/\text{m}^3$), and toluene 1,200 ppbv ($4,500 \mu\text{g}/\text{m}^3$), were detected at 51.583 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags M and N. The highest instantaneous maximum concentration of xylenes, at 820 ppbv ($3,500 \mu\text{g}/\text{m}^3$), was detected at 40.886 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.31 Monitoring Pasadena to Deer Park, 64MSMS00917

Monitoring Pasadena to Deer Park was performed on 10 April 2019 at 8:34:25 and is represented in Figure 31. The average wind speed and direction for the five-minute period ending at 9:00 were 9.3 mph from 191 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 430 ppbv ($1,400 \mu\text{g}/\text{m}^3$), was detected at 41.296 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags N and O. The highest instantaneous maximum concentration of toluene, at 720 ppbv ($2,700 \mu\text{g}/\text{m}^3$), was detected at 41.117 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags N and O. The highest instantaneous maximum concentration of xylenes, at 770 ppbv ($3,300 \mu\text{g}/\text{m}^3$), was detected at 41.212 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags N and O. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.32 Monitoring Pasadena to Deer Park, 64MSMS00930

Monitoring Pasadena to Deer Park was performed on 11 April 2019 at 10:06:59 and is represented in Figure 32. The average wind speed and direction for the five-minute period ending at 10:00 were 9.9 mph from 190 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 180 ppbv ($580 \mu\text{g}/\text{m}^3$), was detected at 43.242 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags L and M. The highest instantaneous maximum concentration of toluene, at 53 ppbv ($200 \mu\text{g}/\text{m}^3$), was detected at 43.252 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags L and M. The highest instantaneous maximum concentration of xylenes, at 8.1 ppbv ($35 \mu\text{g}/\text{m}^3$), was detected at 43.231 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags L and M. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.33 Monitoring Channelview to Deer Park, 64MSMS00935

Monitoring Channelview to Deer Park was performed on 11 April 2019 at 15:22:24 and is represented in Figure 33. The average wind speed and direction for the five-minute period ending at 16:00 were 6.6 mph from 167 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 180 ppbv ($560 \mu\text{g}/\text{m}^3$), was detected at 48.575 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags R and S. The highest instantaneous maximum concentration of toluene, at 61 ppbv ($230 \mu\text{g}/\text{m}^3$), was detected at 48.113 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags Q and R. The highest instantaneous maximum concentration of xylenes, at 130 ppbv ($570 \mu\text{g}/\text{m}^3$), was detected at 47.702 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags Q and R. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.34 Monitoring Channelview to Baytown, 64MSMS00953

Monitoring Channelview to Baytown was performed on 13 April 2019 at 15:06:45 and is represented in Figure 34. The average wind speed and direction for the five-minute period ending at 16:00 were 5.5 mph from 311 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 940 ppbv ($3,000 \mu\text{g}/\text{m}^3$), and

xylenes, at 1,200 ppbv (5,300 $\mu\text{g}/\text{m}^3$), were detected at 83.517 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags D1 and E1. The highest instantaneous maximum concentration of toluene, at 480 ppbv (1,800 $\mu\text{g}/\text{m}^3$), was detected at 83.506 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags D1 and E1. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.35 Monitoring Pasadena to Deer Park, 64MSMS00957

Monitoring Pasadena to Deer Park was performed on 14 April 2019 at 12:34:47 and is represented in Figure 35. The average wind speed and direction for the five-minute period ending at 13:00 were 8.3 mph from 319 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 890 ppbv (2,900 $\mu\text{g}/\text{m}^3$), and toluene, at 860 ppbv (3,200 $\mu\text{g}/\text{m}^3$), were detected at 27.149 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags K and L. The highest instantaneous maximum concentration of xylenes, at 2,600 ppbv (11,000 $\mu\text{g}/\text{m}^3$), was detected at 27.004 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags K and L. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.36 Monitoring Deer Park to Baytown, 64MSMS00959

Monitoring Deer Park to Baytown was performed on 14 April 2019 at 14:35:10 and is represented in Figure 36. The average wind speed and direction for the five-minute period ending at 15:00 were 7.0 mph from 321 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 630 ppbv (2,000 $\mu\text{g}/\text{m}^3$), was detected at 105.932 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags I1 and J1. The highest instantaneous maximum concentration of toluene, at 490 ppbv (1,800 $\mu\text{g}/\text{m}^3$), was detected at 106.048 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags I1 and J1. The highest instantaneous maximum concentration of xylenes, at 3,300 ppbv (14,000 $\mu\text{g}/\text{m}^3$), was detected at 106.153 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags I1 and J1. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.37 Monitoring Pasadena to Baytown, 64MSMS00982

Monitoring Pasadena to Baytown was performed on 18 April 2019 at 13:52:52 and is represented in Figure 37. The average wind speed and direction for the five-minute period ending at 14:00 were 8.9 mph from 302 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 820 ppbv (2,600 $\mu\text{g}/\text{m}^3$), was detected at 42.001 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags J and K. The highest instantaneous maximum concentration of toluene, at 240 ppbv (890 $\mu\text{g}/\text{m}^3$), was detected at 24.057 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags G and H. The highest instantaneous maximum concentration of xylenes, at 780 ppbv (3,400 $\mu\text{g}/\text{m}^3$), was detected at 24.120 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags G and H. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.38 Monitoring Lynchburg to Deer Park, 64MSMS00984

Monitoring Lynchburg to Deer Park was performed on 18 April 2019 at 15:50:31 and is

represented in Figure 38. The average wind speed and direction for the five-minute period ending at 16:00 were 8.3 mph from 318 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 870 ppbv ($2,800 \mu\text{g}/\text{m}^3$), was detected at 30.367 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags H and I. The highest instantaneous maximum concentration of toluene, at 200 ppbv ($750 \mu\text{g}/\text{m}^3$), was detected at 42.516 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags J and K. The highest instantaneous maximum concentration of xylenes, at 560 ppbv ($2,400 \mu\text{g}/\text{m}^3$), was detected at 30.136 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags H and I. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.39 Monitoring Pasadena to Deer Park, 64MSMS00988

Monitoring Pasadena to Deer Park was performed on 19 April 2019 at 8:42:14 and is represented in Figure 39. The average wind speed and direction for the five-minute period ending at 9:00 were 6.7 mph from 334 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 360 ppbv ($1,100 \mu\text{g}/\text{m}^3$), was detected at 18.008 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags F and G. The highest instantaneous maximum concentration of toluene, at 360 ppbv ($1,400 \mu\text{g}/\text{m}^3$), was detected at 18.050 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags F and G. The highest instantaneous maximum concentration of xylenes, at 490 ppbv ($2,100 \mu\text{g}/\text{m}^3$), was detected at 17.630 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags E and F. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.40 Monitoring Deer Park to La Porte, 64MSMS00989

Monitoring Deer Park to La Porte was performed on 19 April 2019 at 9:29:22 and is represented in Figure 40. The average wind speed and direction for the five-minute period ending at 10:00 were 8.2 mph from 319 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 1,000 ppbv ($3,200 \mu\text{g}/\text{m}^3$), was detected at 79.635 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags T and U. The highest instantaneous maximum concentration of toluene, at 170 ppbv ($620 \mu\text{g}/\text{m}^3$), was detected at 79.562 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags T and U. The highest instantaneous maximum concentration of xylenes, at 490 ppbv ($2,100 \mu\text{g}/\text{m}^3$), was detected at 80.203 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags T and U. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.41 Monitoring Deer Park, 64MSMS00992

Monitoring Deer Park was performed on 19 April 2019 at 13:18:23 and is represented in Figure 41. The average wind speed and direction for the five-minute period ending at 14:00 were 10.8 mph from 322 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 770 ppbv ($2,500 \mu\text{g}/\text{m}^3$), was detected at 21.627 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags G and H. The highest instantaneous maximum concentration of toluene, at 180 ppbv ($670 \mu\text{g}/\text{m}^3$), was detected at 21.890 minutes into the monitoring run while

traveling north on Independence Parkway near the Site between flags H and I. The highest instantaneous maximum concentration of xylenes, at 620 ppbv ($2,700 \mu\text{g}/\text{m}^3$), was detected at 37.478 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags J and K. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.42 Monitoring La Porte to Deer Park, 64MSMS00995

Monitoring La Porte to Deer Park was performed on 19 April 2019 at 16:02:31 and is represented in Figure 42. The average wind speed and direction for the five-minute period ending at 16:00 were 8.6 mph from 310 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 810 ppbv ($2,600 \mu\text{g}/\text{m}^3$), was detected at 38.803 minutes into the monitoring run while traveling south on Independence Parkway near the Site between flags K and L. The highest instantaneous maximum concentration of toluene, at 260 ppbv ($990 \mu\text{g}/\text{m}^3$), was detected at 25.255 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags J and K. The highest instantaneous maximum concentration of xylenes, at 920 ppbv ($4,000 \mu\text{g}/\text{m}^3$), was detected at 25.171 minutes into the monitoring run while traveling north on Independence Parkway near the Site between flags I and J. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.43 Monitoring Deer Park to Channelview, 64MSMS01043

Monitoring Deer Park to Channelview was performed on 24 April 2019 at 10:12:32 and is represented in Figure 43. The average wind speed and direction for the five-minute period ending at 11:00 were 11.9 mph from 122 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 910 ppbv ($2,900 \mu\text{g}/\text{m}^3$), was detected at 55.159 minutes into the monitoring run while traveling north on Lakeside Drive between flags R and S. The highest instantaneous maximum concentration of toluene, at 310 ppbv ($1,200 \mu\text{g}/\text{m}^3$), was detected at 55.191 minutes into the monitoring run while traveling north on Lakeside Drive between flags R and S. The highest instantaneous maximum concentration of xylenes, at 3,700 ppbv ($16,000 \mu\text{g}/\text{m}^3$), was detected at 55.201 minutes into the monitoring run while traveling north on Lakeside Drive between flags R and S. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.44 Monitoring Pasadena to Deer Park, 64MSMS01071

Monitoring Pasadena to Deer Park was performed on 27 April 2019 at 8:39:19 and is represented in Figure 44. The average wind speed and direction for the five-minute period ending at 9:00 were 8.7 mph from 183 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 520 ppbv ($1,700 \mu\text{g}/\text{m}^3$), was detected at 29.031 minutes into the monitoring run while traveling west on Tidal Road near the Site between flags J and K. The highest instantaneous maximum concentration of toluene, at 280 ppbv ($1,000 \mu\text{g}/\text{m}^3$), was detected at 38.372 minutes into the monitoring run while traveling west on Tidal Road near the Site between flags J and K. The highest instantaneous maximum concentration of xylenes, at 8,100 ppbv ($35,000 \mu\text{g}/\text{m}^3$), was detected at 28.569 minutes into the monitoring run while traveling west on Tidal Road near the Site between flags J and K. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.45 Monitoring Pasadena to Deer Park, 64MSMS01072

Monitoring Pasadena to Deer Park was performed on 27 April 2019 at 9:29:31 and is represented in Figure 45. The average wind speed and direction for the five-minute period ending at 10:00 were 9.4 mph from 166 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 190 ppbv ($610 \mu\text{g}/\text{m}^3$), was detected at 64.794 minutes into the monitoring run while traveling north on Lakeside Drive between flags T and U. The highest instantaneous maximum concentration of toluene, at 45 ppbv ($170 \mu\text{g}/\text{m}^3$), was detected at 64.752 minutes into the monitoring run while traveling north on Lakeside Drive between flags T and U. The highest instantaneous maximum concentration of xylenes, at 54 ppbv ($230 \mu\text{g}/\text{m}^3$), was detected at 64.773 minutes into the monitoring run while traveling north on Lakeside Drive between flags T and U. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.46 Monitoring Pasadena to Deer Park, 64MSMS01087

Monitoring Pasadena to Deer Park was performed on 28 April 2019 at 15:32:38 and is represented in Figure 46. The average wind speed and direction for the five-minute period ending at 16:00 were 11.0 mph from 128 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentrations of benzene, at 490 ppbv ($1,600 \mu\text{g}/\text{m}^3$), and toluene, at 46 ppbv ($175 \mu\text{g}/\text{m}^3$), were detected at 48.964 minutes into the monitoring run while traveling north on Lakeside Drive between flags M and N. The highest instantaneous maximum concentration of xylenes, at 28 ppbv ($120 \mu\text{g}/\text{m}^3$), was detected at 48.953 minutes into the monitoring run while traveling north on Lakeside Drive between flags M and N. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.47 Monitoring Highway 8 to Command Post, 64MSMS01090

Monitoring Highway 8 to Command Post was performed on 29 April 2019 at 8:40:24 and is represented in Figure 47. The average wind speed and direction for the five-minute period ending at 9:00 were 12.3 mph from 159 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 460 ppbv ($1,500 \mu\text{g}/\text{m}^3$), was detected at 54.423 minutes into the monitoring run while traveling east on Tidal Road near the Site between flags R and S. The highest instantaneous maximum concentration of toluene, at 99 ppbv ($370 \mu\text{g}/\text{m}^3$), was detected at 54.434 minutes into the monitoring run while traveling east on Tidal Road near the Site between flags R and S. The highest instantaneous maximum concentration of xylenes, at 9,900 ppbv ($43,000 \mu\text{g}/\text{m}^3$), was detected at 55.117 minutes into the monitoring run while traveling east on Tidal Road near the Site between flags R and S. The concentrations for benzene, toluene and xylenes exceeded the linear calibration range and are considered estimated.

4.48 Monitoring Channelview, 64MSMS01102

Monitoring Channelview was performed on 30 April 2019 at 10:49:28 and is represented in Figure 48. The average wind speed and direction for the five-minute period ending at 11:00 were 15.4 mph from 144 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 480 ppbv ($1,500 \mu\text{g}/\text{m}^3$), was detected at 8.804 minutes into the monitoring run while traveling south on Lakeside Drive between flags C and D. The highest instantaneous maximum concentration of toluene, at 39 ppbv ($150 \mu\text{g}/\text{m}^3$), was detected at 8.794 minutes into the monitoring run while traveling south on Lakeside Drive between flags C and D. The highest instantaneous maximum concentration of xylenes, at 130 ppbv ($550 \mu\text{g}/\text{m}^3$), was detected at 37.267 minutes into the monitoring run while traveling northeast on Market Street between flags M and N. The concentrations for benzene,

toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.49 Monitoring Channelview Two, 64MSMS01103

Monitoring Channelview Two was performed on 30 April 2019 at 11:36:36 and is represented in Figure 49. The average wind speed and direction for the five-minute period ending at 12:00 were 15.5 mph from 146 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 210 ppbv ($680 \mu\text{g}/\text{m}^3$), was detected at 7.469 minutes into the monitoring run while traveling south on Lakeside Drive between flags F and G. The highest instantaneous maximum concentration of toluene, at 56 ppbv ($210 \mu\text{g}/\text{m}^3$), was detected at 7.458 minutes into the monitoring run while traveling south on Lakeside Drive between flags F and G. The highest instantaneous maximum concentration of xylenes, at 15 ppbv ($66 \mu\text{g}/\text{m}^3$), was detected at 7.658 minutes into the monitoring run while traveling south on Lakeside Drive between flags G and H. The concentrations for benzene and toluene exceeded the linear calibration range and are considered estimated.

4.50 Monitoring Jacinto City to Channelview, 64MSMS01120

Monitoring Jacinto City to Channelview was performed on 02 May 2019 at 11:01:51 and is represented in Figure 50. The average wind speed and direction for the five-minute period ending at 12:00 were 15.1 mph from 116 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 480 ppbv ($1,500 \mu\text{g}/\text{m}^3$), was detected at 53.393 minutes into the monitoring run while traveling east on Dezavala Road/Lakeside Drive between flags R and S. The highest instantaneous maximum concentrations of toluene, at 110 ppbv ($420 \mu\text{g}/\text{m}^3$), and xylenes, at 48 ppbv ($210 \mu\text{g}/\text{m}^3$), were detected at 53.214 minutes into the monitoring run while traveling east on Dezavala Road/Lakeside Drive between flags R and S. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.51 Monitoring Channelview, 64MSMS01123

Monitoring Channelview was performed on 02 May 2019 at 13:43:38 and is represented in Figure 51. The average wind speed and direction for the five-minute period ending at 14:00 were 12.6 mph from 117 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 200 ppbv ($630 \mu\text{g}/\text{m}^3$), was detected at 40.455 minutes into the monitoring run while traveling south on Lakeside Drive between flags I and J. The highest instantaneous maximum concentration of toluene, at 26 ppbv ($99 \mu\text{g}/\text{m}^3$), was detected at 11.897 minutes into the monitoring run while traveling north on Sheldon Road between flags E and F. The highest instantaneous maximum concentration of xylenes, at 420 ppbv ($1,800 \mu\text{g}/\text{m}^3$), was detected at 28.180 minutes into the monitoring run while traveling west on Market Street near Southwest Shipyard between flags H and I. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.52 Monitoring Channelview, 64MSMS01143

Monitoring Channelview was performed on 09 May 2019 at 11:09:06 and is represented in Figure 52. The average wind speed and direction for the five-minute period ending at 11:00 were 4.0 mph from 195 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 230 ppbv ($730 \mu\text{g}/\text{m}^3$), was detected at 9.446 minutes into the monitoring run while traveling north on Lakeside Drive

between flags D and E. The highest instantaneous maximum concentration of toluene, at 49 ppbv ($180 \mu\text{g}/\text{m}^3$), was detected at 9.509 minutes into the monitoring run while traveling north on Lakeside Drive between flags D and E. The highest instantaneous maximum concentration of xylenes, at 120 ppbv ($540 \mu\text{g}/\text{m}^3$), was detected at 5.050 minutes into the monitoring run while traveling north on Lakeside Drive between flags D and E. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

4.53 Monitoring ITC Site Three, 64MSMS01197

Monitoring ITC Site Three was performed on 16 May 2019 at 10:57:26 and is represented in Figure 52. The average wind speed and direction for the five-minute period ending at 11:00 were 9.3 mph from 101 degrees. There was no precipitation measured during the preceding hour.

The highest instantaneous maximum concentration of benzene, at 320 ppbv ($1,000 \mu\text{g}/\text{m}^3$), was detected at 54.970 minutes into the monitoring run while monitoring through the ITC facility between flags L and M. The highest instantaneous maximum concentration of toluene, at 150 ppbv ($550 \mu\text{g}/\text{m}^3$), was detected at 54.949 minutes into the monitoring run while monitoring through the ITC facility between flags L and M. The highest instantaneous maximum concentration of xylenes, at 930 ppbv ($4,000 \mu\text{g}/\text{m}^3$), was detected at 54.886 minutes into the monitoring run while monitoring through the ITC facility between flags L and M. The concentrations for benzene, toluene, and xylenes exceeded the linear calibration range and are considered estimated.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

The compound parent/daughter ion pairs used are listed below.

Compound	Parent Ion Mass	Daughter Ion Mass
Benzene	78	39
Benzene	78	52
Toluene	92	65
Toluene	92	91
Xylene	106	65
Xylene	106	91

Table 2 documents the RFs and IRFs generated during the calibration procedure for the individual ion pairs. The RFs or IRFs were used to quantitate the ion pair concentrations. An end-of-day calibration was not performed on 15 April 2019 due to a vehicle maintenance issue, or on 07 May 2019 due to a local weather emergency. As such, no IRFs or Error Bars were calculated for data files 64MSMS00962, 64MSMS00963, 64MSMS01129, 64MSMS01130, 64MSMS01131, and 64MSMS01132. No results above the AHCV were observed for these data files.

The summaries of detection and quantitation limit data for the monitoring periods (Sections 5.3 and 5.4 and Table 3) document the concentration in ppbv required for a compound's ion pair to be considered detectable and quantifiable during the specified monitoring period. The detection limit (DL) is defined as three times the standard deviation (SD) of the concentration for a compound's ion pair measured in an ambient air sample. The QL is defined as 10 times the SD of the concentration for the same conditions. The detection and quantitation limits for a compound result from averaging the appropriate detection and quantitation limits of the compound's ion pairs.

5.1 Intermediate Response Factor for Ion Pairs

Response factors were generated from two calibration events, as described in the procedure (Section 2.2.2.). Table 2 contains the RFs in units of icps/ppbv. The initial and final RFs were

used to calculate the IRFs, which were used to calculate the reported concentration results.

The following equation was used to calculate the IRFs found in Tables 2 and 3:

$$\text{IRF} = \frac{2(\text{RF}_1 \times \text{RF}_2)}{(\text{RF}_1 + \text{RF}_2)}$$

where:

IRF = Intermediate response factor (icps/concentration)

RF₁ = The RF for an ion pair measured during the first calibration event (icps/concentration)

RF₂ = The RF for the same ion pair measured during the second calibration event (icps/concentration)

For example, the entry for the 78/39 ion pair of benzene from Table 2 for files 64MSMS00708 and 64MSMS00713, 20 March 2019 is:

RF₁ = 6.2740 icps/ppbv

RF₂ = 6.1628 icps/ppbv

therefore,

$$\text{IRF} = \frac{2 (6.2740 \times 6.1628)}{(6.2740 + 6.1628)} = \frac{77.3308}{12.4368} = 6.2179$$

The result, 6.2179 icps/ppbv, is the IRF reported in Table 2 and used in Table 3.

5.2 Error Bars

The potential maximum concentration percent deviations for each target compound are presented in Table 2 and are called “error bars” for simplicity. They represent the potential bias in the concentration due to changes in the sensitivity of the TAGA instrument. Errors bars were calculated using the following equation:

$$\text{error bar} = \frac{|\text{RF}_1 - \text{RF}_2|}{(\text{RF}_1 + \text{RF}_2)} \times 100$$

where:

error bar = Maximum concentration percent deviation

RF₁ = The RF for an ion pair measured during the first calibration event (icps/concentration)

RF₂ = The RF for the same ion pair measured during the second calibration event (icps/concentration)

For example, the entry for the 78/39 ion pair of benzene from Table 2 for files 64MSMS00708 and 64MSMS00713, 20 March 2019 is:

RF₁ = 6.2740 icps/ppbv

RF₂ = 6.1628 icps/ppbv

Therefore:

$$\text{error bar} = \frac{|6.2740-6.1628|}{(6.2740+6.1628)} \times 100 = \frac{0.1112}{12.4368} \times 100 = 0.894$$

The % error bar calculated for the 78/39 ion pair of benzene is 0.894% for files 64MSMS00708 and 64MSMS00713, 20 March 2019.

The above calculation was repeated for each ion pair. The error bars for each compound's ions were averaged to give a single value for the compound. This averaged error bar can be applied to the samples analyzed between the two calibrations of the monitoring period.

5.3 Ion Pair Detection and Quantitation Limits

The DLs and QLs were calculated using the SD of the compound's ion pair intensity measured in an ambient air sample and its RF or IRF. The SD reflects the variability of the instrument's response to the ambient air sample.

The following equation was used to calculate the DLs found in Table 3:

$$DL = \frac{3 \times SD}{RF \text{ or } IRF}$$

where:

DL = Detection limit for an ion pair (concentration)

SD = Standard deviation of the ion intensity measured in an ambient air sample (icps)

RF or IRF = Response or intermediate response factor for an ion pair (icps/concentration)

For example, the entry for the 78/39 ion pair of benzene from Table 2 for files 64MSMS00708 and 64MSMS00713, 20 March 2019 is:

SD = 7.1451 icps

IRF = 6.2179 icps/ppbv

$$DL = \frac{3 \times 7.1451}{6.2179} = 3.45 \text{ ppbv}$$

The following equation was used to calculate the QLs found in Table 3:

$$QL = \frac{10 \times SD}{RF \text{ or } IRF}$$

where:

QL = Quantitation limit concentration for an ion pair (concentration)

SD = Standard deviation of the ion intensity measured in an ambient air sample (icps)

RF or IRF = Response or intermediate response factor for an ion pair (icps/concentration)

For example, the entry for the 78/39 ion pair of benzene from Table 3 for files 64MSMS01154 and 64MSMS01160, 11 May 2019 is:

SD = 7.1451 icps

IRF = 6.2179 icps/ppbv

$$QL = \frac{10 \times 7.1541}{6.2179} = 11.5 \text{ ppbv}$$

5.4 Compound Detection and Quantitation Limits

Averaging the respective DLs and QLs of the target compound's ion pairs generated the DLs and QLs found in Table 3.

The following equation was used to calculate the compound's DL:

$$DL_c = \frac{DL_1 + DL_2 + \dots + DL_n}{n}$$

where:

- DL_c = Detection limit for a compound (concentration)
- DL₁ = Detection limit for the first ion pair (concentration)
- DL₂ = Detection limit for the second ion pair (concentration)
- DL_n = Detection limit for the nth ion pair (concentration)
- n = Number of ion pairs to be averaged

For example, using the entries for the 78/39 and 78/52 ion pairs of benzene from Table 3 for files 64MSMS00708 and 64MSMS00713, 20 March 2019 is:

$$DL_c = \frac{3.45 + 1.12}{2} = \frac{4.57}{2} = 2.285 \text{ ppbv}$$

This result, 2.285 ppbv, rounded to 2.3 ppbv is the DL for benzene found in Table 3.

The following equation was used to calculate the compound's QL:

$$QL_c = \frac{QL_1 + QL_2 + \dots + QL_n}{n}$$

where:

- QL_c = Quantitation limit for a compound (concentration)
- QL₁ = Quantitation limit for the first ion pair (concentration)
- QL₂ = Quantitation limit for the second ion pair (concentration)
- QL_n = Quantitation limit for the nth ion pair (concentration)
- n = Number of ion pairs to be averaged

For example, using the entries for the 78/39 and 78/52 ion pairs of benzene from Table 3 for files 64MSMS00708 and 64MSMS00713, 20 March 2019 is:

$$QL_c = \frac{11.5 + 3.73}{2} = \frac{15.23}{2} = 7.615 \text{ ppbv}$$

This result, 7.615 ppbv, rounded to 7.6 ppbv is the QL for benzene found in Table 3.

TABLES

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FIGURES

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APPENDIX A

Standard Gas Cylinder Certification

Intercontinental Terminals Company Emergency Response

Final Analytical TAGA Report

July 2019

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THE LINDE GROUP

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109 TW Alexander Dr
Durham, NC 27709-0002

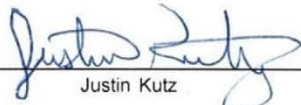
PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#:	116981059	Cylinder Size:	152 (8" X 47.5")
Production#:	1476496	Cylinder #:	CC-128272
Certification Date:	Dec-10-2018	Cylinder Pressure:	1100 psig
P.O.#:	CC-Danielle McCall	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	24086389	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liters
Expiration Date:	Dec-10-2019	Blend Tolerance:	5% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	2% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Chloride	75-01-4	20.0 ppm	20.7 ppm
1,1-Dichloroethene	75-35-4	20.0 ppm	20.7 ppm
Benzene	71-43-2	20.0 ppm	20.8 ppm
Trichloroethylene	79-01-6	20.0 ppm	20.8 ppm
Toluene	108-88-3	20.0 ppm	20.8 ppm
Tetrachloroethylene	127-18-4	20.0 ppm	20.8 ppm
P-Xylene	106-42-3	10.0 ppm	10.4 ppm
M-Xylene	108-38-3	10.0 ppm	10.4 ppm
O-Xylene	95-47-6	10.0 ppm	10.5 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST:


Justin Kutz

DATE: Dec-11-2018

Linde Gas North America LLC

OK Received 12/20/18 ~1050 psi
(908) 329-9700 Main (908) 329-9740 Fax
www.Lindeus.com

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Linde

SHIPPED TO: Leidos Innovations Corporation
2890 Woodbridge Ave.
Edison, NJ 08837-3679

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#:	116469142	Cylinder Size:	152 (8" X 47.5")
Production#:	3146050	Cylinder # :	CC-256091
Certification Date:	Jun-21-2018	Cylinder Pressure:	500 psig
P.O.# :	TBD - Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004551	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	1000 Liters
Expiration Date:	Jun-21-2019	Blend Tolerance:	5% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	2% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Chloride	75-01-4	20.0 ppm	19.3 ppm
1,1-Dichloroethene	75-35-4	20.0 ppm	19.9 ppm
Benzene	71-43-2	20.0 ppm	19.9 ppm
Trichloroethylene	79-01-6	20.0 ppm	20.0 ppm
Toluene	108-88-3	20.0 ppm	20.4 ppm
Tetrachloroethylene	127-18-4	20.0 ppm	20.3 ppm
p-xylene	106-42-3	10.0 ppm	10.8 ppm
m-xylene	108-38-3	10.0 ppm	10.8 ppm
o-xylene	95-47-6	10.0 ppm	10.7 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST:

Lou Lorenzetti
Lou Lorenzetti

DATE: Jun-21-2018

Linde Gas North America LLC

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APPENDIX B

Calibration Data

Intercontinental Terminals Company Emergency Response

Final Analytical TAGA Report

July 2019

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APPENDIX C
Compiled Meteorological Data
Intercontinental Terminals Company Emergency Response
Final Analytical TAGA Report
July 2019

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